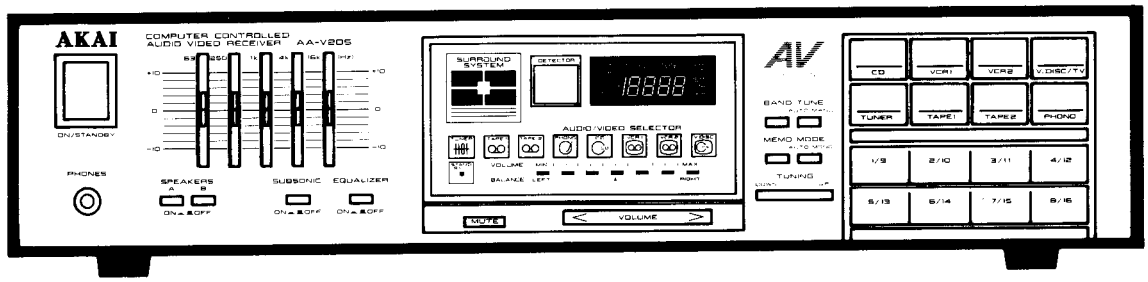
AKAI SERVICE MANUAL



COMPUTER CONTROLLED AUDIO VIDEO RECEIVER

MODEL AA-V205

SPECIFICATIONS

Amplifier Section

Power output	
Rated power output	
20Hz to 20 kHz	60W/0.05% at 8 ohms
Output power by FTC	
20Hz to 20kHz	60W/0.05% at 8 ohms
Output power by F. Norm	
63Hz to 12.5kHz	65W
Output power by DIN	
1kHz	65W
Music power (Both channels)	280W
Power bandwidth	
(IHF −3dB, 8 ohms)	5Hz to 70kHz/0.5%
S/N (IHF-A)	
PHONO	75dB
CD, TAPE	98dB
Residual noise (8 ohms)	0.5mV
Channel separation	
(HF, 1kHz)	65dB
Damping factor	
(1kHz, 8 ohms)	50
Speaker impedance	
A or B	8 to 16 ohms
A + B	16 ohms
SURROUND	8 ohms
Input sensitivity/Impedance	
PHONO	2.0mV/47kohms
CD, TAPE	150mV/47kohms
V. DISC/VCR (Audio)	150mV/47kohms
V. DISC/VCR (Video)	1Vp-p/75 ohms
Output level/Impedance	
TAPE REC	150mV/1kohms
VCR (Audio)	150mV/1kohms
MONITOR/VCR (Video)	1Vp-p/1kohms
Frequency response	
PHONO (RIAA)	±0.5dB
AUX/TAPE	5Hz to 100kHz −3dB
Graphic equalizer	
Control range	±10dB
Center frequency	63Hz/250Hz/1kHz/ 4kHz/16kHz
Phono max. input level	
(1kHz)	120mV

Tuner Section

FM Tuner

Tuning frequency range	87.5MHz to 108.0MHz
Usable sensitivity	11.2dBf
Quieting sensitivity (HF)	16.2dBf (Mono)/37.2dBf (Stereo) (S/N = 50dB)
Capture ratio	1.5
Selectivity (400kHz)	60dB
Image rejection	85dB
IF rejection	90dB
Spurious rejection	80dB
AM suppression	60dB
Sub carrier suppression	60dB
S/N (IHF)	75dB (Mono)/65dB (Stereo)
Harmonic distortion	0.1% (Mono)/0.3% (Stereo)
Stereo separation (1kHz)	45dB
Frequency response	30Hz to 15kHz ±0.5dB

AM Tuner

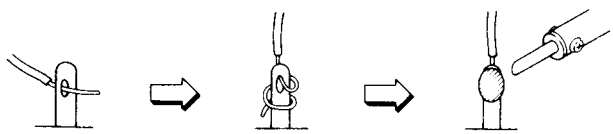
	AM tuner section (MW for AA-V205L)	LW tuner section (for AA-V205L)
Tuning frequency range		
USA & Canada	530kHz to 1,610kHz	–
Other countries	531kHz to 1,602kHz	146kHz to 353kHz
Usable sensitivity		
(Loop antenna)	300μV/m	800μV/m
Selectivity	22dB	40dB
Image rejection	45dB	45dB
IF rejection	35dB	35dB
S/N	40dB	35dB
T.H.D.	1.0%	2.0%
Power requirements	120V, 60Hz for USA & Canada 220V, 50Hz for Europe except UK 240V, 50Hz for UK & Australia 110V/120V/220V/240V, 50Hz/60Hz convertible for other countries	
Dimensions	440(W) x 100(H) x 343(D) mm (17.3 x 3.9 x 13.5 inches)	
Weight	7.4kg (16.3 lbs)	

* For improvement purposes, specifications and design are subject to change without notice.

★SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠ symbol parts are critical for safety. Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
   These must also be replaced only with specified replacements.
   Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (Insulating Barriers)
   4) Insulation sheets for transistors
   5) Plastic screws for fixing microswitch (especially in turntable)
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locatoins.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 M ohms. but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for [C] or [A], specified insulation resistance should be headphone jacks line-in-out jacks etc. more than 2.2 M ohms (ground terminals, microphone jacks).

PRECAUTION FOR THE LITHIUM BATTERY

The LITHIUM BATTERY employed for memory Back up has a explosive probability when the BATTERY itself is excessive heated.

IN CASE OF REPLACING: RESOLDER and SOLDER AS RECOMMENDED WAY.

[DANGER]

[RECOMMENDED WAY]

★INFORMATION

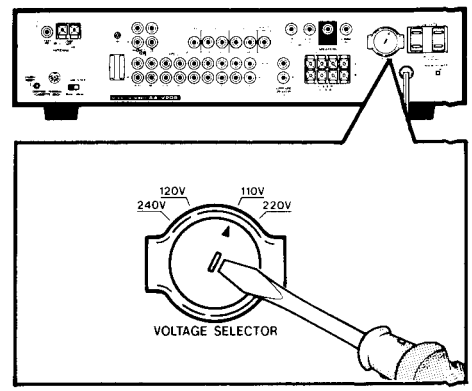
SYMBOLS FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

Symbols	Principal Destinations
[A]	USA
[B]	UK
[C]	Canada
[E]	Europe (except UK)
[J]	Japan
[S]	Australia
[V]	W. Germany only
[U]	Universal Area
[Y*]	Custom version

VOLTAGE CONVERSION ([U] Model only)

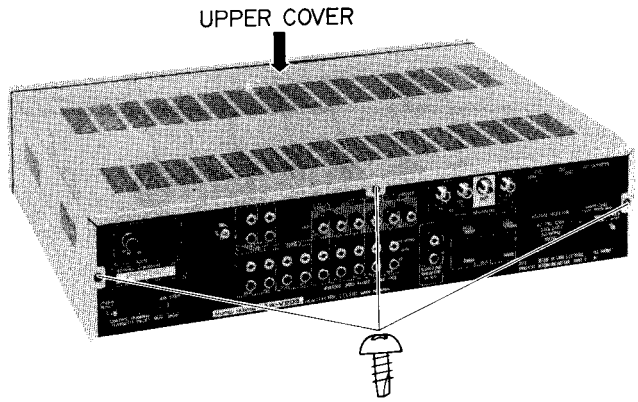
Befor connecting the power cord. SET the VOLTAGE SELECTOR located on the rear panel with a screwdriver so that the correct voltage is indicated.



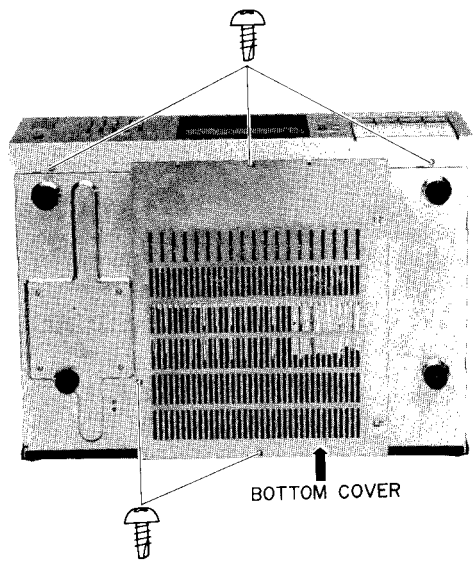
I. DISMANTLING OF UNIT

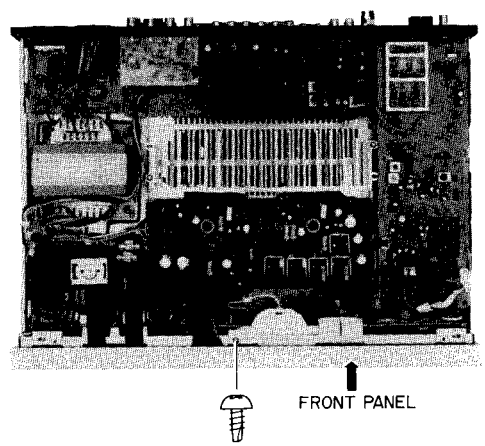
In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

1. REMOVAL UPPER COVER

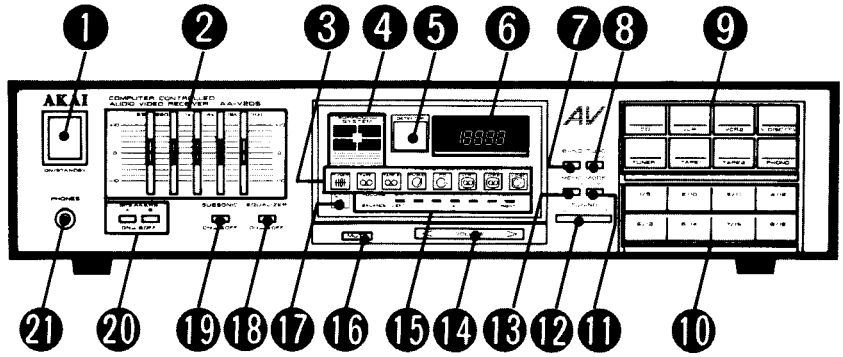


2. REMOVAL FRONT PANEL and BOTTOM COVER





II. CONTROLS



1 POWER ON/STANDBY switch
To turn ON and OFF the Akai audio video receiver.

2 5 band Graphic Equalizer
To finely adjust each frequency level.

3 AUDIO/VIDEO SELECTOR displays
Shows which source is selected for playback or recording.

4 Surround ON display
Lights when the SURROUND button is depressed.

5 DETECTOR window
Detects beams from remote control unit.

6 LC (liquid crystal) Tuner Display
Shows Band, Frequency, AUTO, MONO, and MEMO.

7 BAND selector
To select band.

8 TUNE (AUTO/MANU) selector
To select tuning mode automatically or manually during radio reception.

9 AV Source Selectors (CD, VCR1, VCR2, V.DISC/TV, TUNER, TAPE1, TAPE2, PHONO)
Use these selectors to choose an audio or video source.

10 Preset Station (1-8/9-16) Buttons
Use these buttons to memorize and recall preset stations.

11 MODE AUTO/MONO switch
Use this switch to choose Stereo or Monaural reception of FM broadcasts.

12 TUNING UP(>)/DOWN (<) Control
To tune in radio frequencies.

13 MEMO button
Use it when memorizing radio stations with the preset station buttons.

14 VOLUME Control
To adjust the volume level.

15 VOLUME/BALANCE display

16 MUTE switch
To instantly reduce the volume.

17 STANDBY indicator
Lights when this unit is connected to an AC power supply and set the MAIN POWER switch to ON (▂).

18 EQUALIZER ON/OFF switch
To turn ON and OFF the graphic equalizer.

19 SUBSONIC filter
Eliminates ultra low frequency disturbances during record playback.

20 SPEAKERS ON(▂)/OFF (▁) switches
To turn A and B speaker systems ON and OFF.

21 PHONES jack
For connection of headphones.

The mute protection circuit system

The Akai audio video receiver has an audio mute system to prevent unwanted noise from damaging the equipment when the power is initially turned on. For the first few seconds, no sound is heard while the mute system is engaged. While the mute system is engaged, the VOLUME display will flash.

III. PRINCIPAL PARTS LOCATION

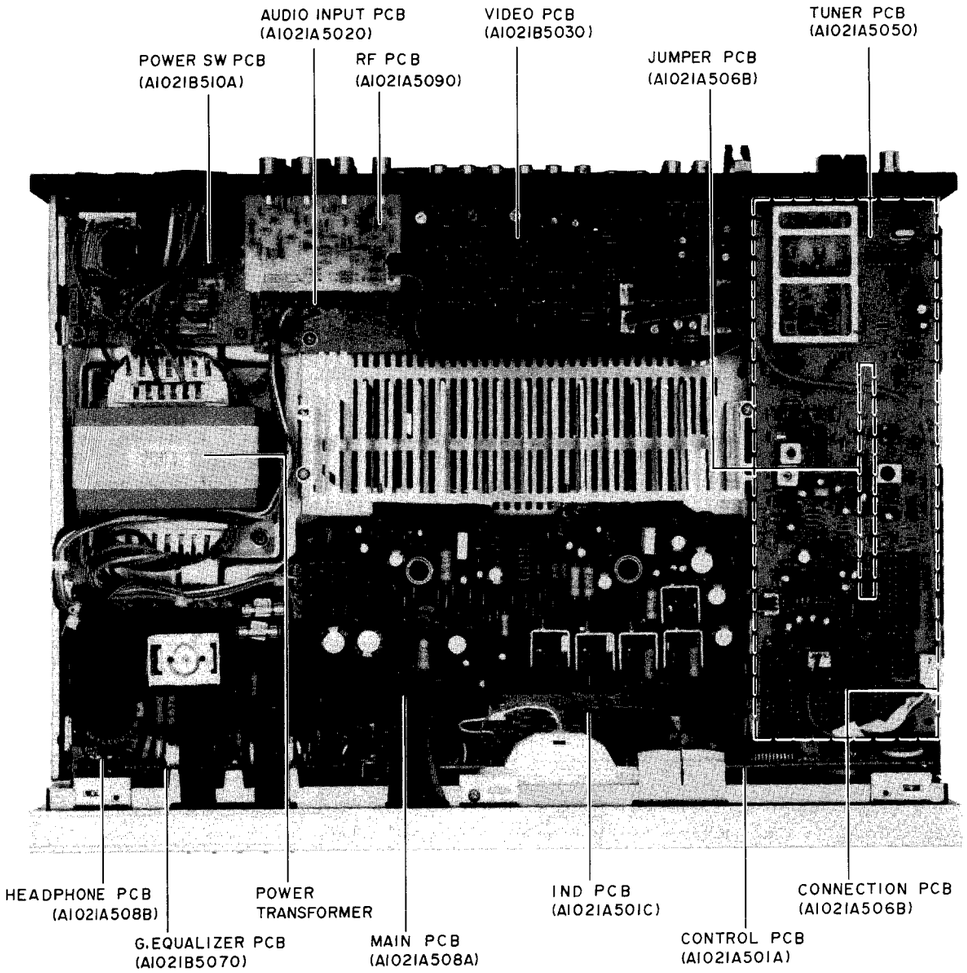


Fig. 3-1 Top View

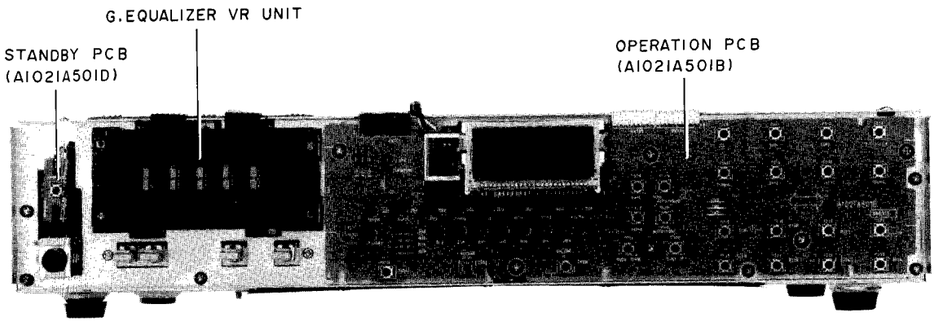


Fig. 3-2 Front View

IV. ADJUSTMENT

4-1. INSTRUMENT CONNECTIONS

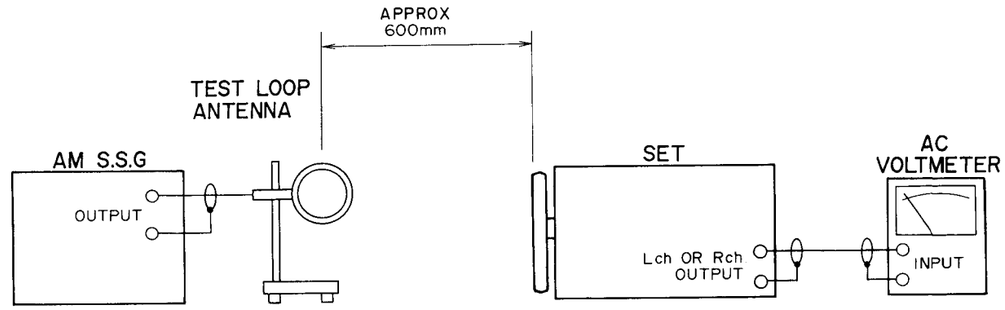


Fig. 4-1 Instrument Connections for AM (MW, LW) Section Adjustment

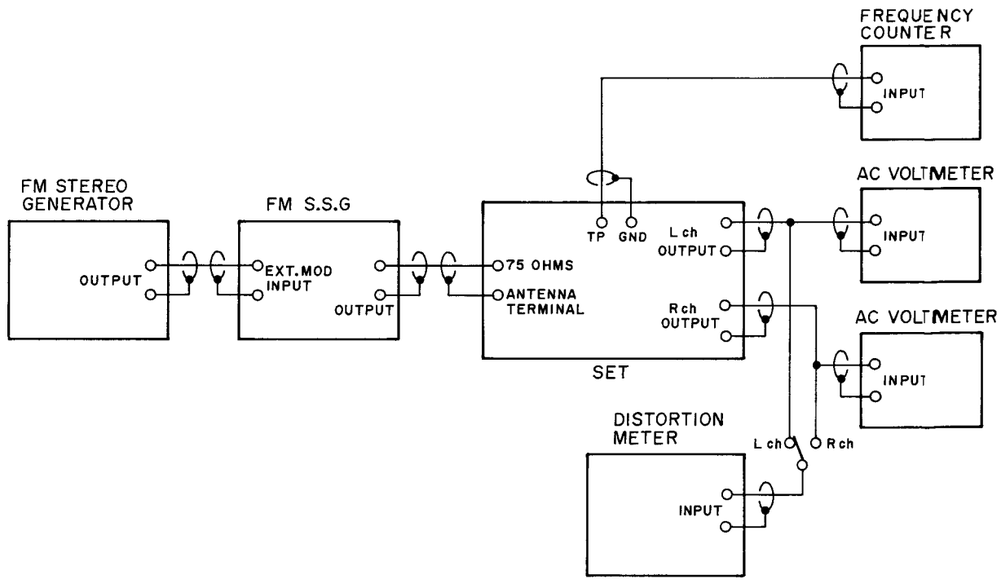
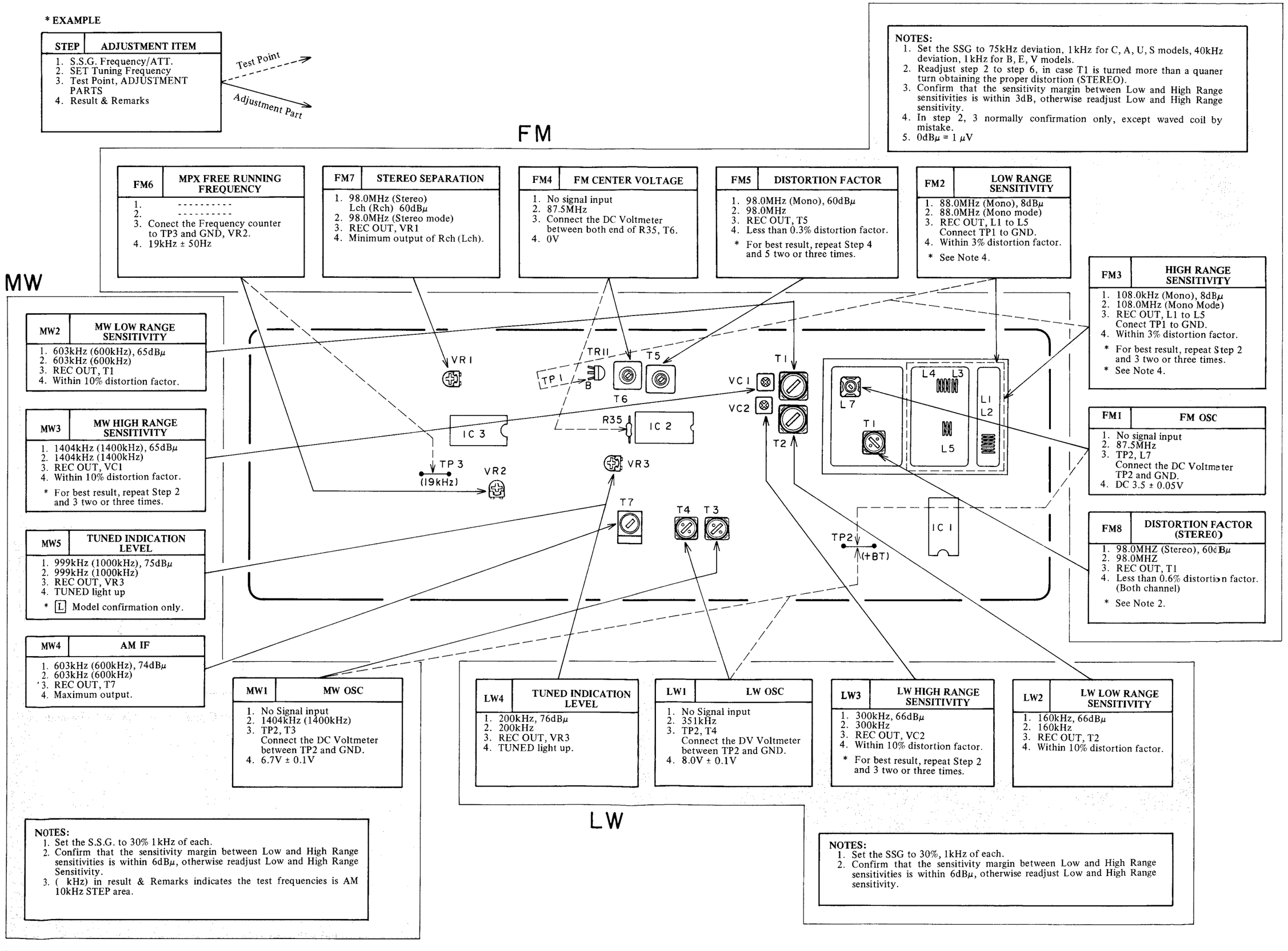


Fig. 4-2 Instrument Connection for FM Section Adjustment

4-2. MAIN PC BOARD ADJUSTMENT


* EXAMPLE
STEP
ADJUSTMENT ITEM
1. S.S.G. Frequency/ATT.
2. SET Tuning Frequency
3. Test Point, ADJUSTMENT PARTS
4. Result & Remarks
Test Point
Adjustment Part
NOTES:
1. Set the SSG to 75kHz deviation, 1kHz for C, A, U, S models, 40kHz deviation, 1kHz for B, E, V models.
2. Readjust step 2 to step 6, in case T1 is turned more than a quaner turn obtaining the proper distortion (STEREO).
3. Confirm that the sensitivity margin between Low and High Range sensitivities is within 3dB, otherwise readjust Low and High Range sensitivity.
4. In step 2, 3 normally confirmation only, except waved coil by mistake.
5. 0dBμ = 1 μV
FM
FM6 MPX FREE RUNNING FREQUENCY
1. ----------
2. ----------
3. Conect the Frequency counter to TP3 and GND, VR2.
4. 19kHz ± 50Hz
FM7 STEREO SEPARATION
1. 98.0MHz (Stereo) Lch (Rch) 60dBμ
2. 98.0MHz (Stereo mode)
3. REC OUT, VR1
4. Minimum output of Rch (Lch).
FM4 FM CENTER VOLTAGE
1. No signal input
2. 87.5MHz
3. Connect the DC Voltmeter between both end of R35, T6.
4. 0V
FM5 DISTORTION FACTOR
1. 98.0MHz (Mono), 60dBμ
2. 98.0MHz
3. REC OUT, T5
4. Less than 0.3% distortion factor.
* For best result, repeat Step 4 and 5 two or three times.
FM2 LOW RANGE SENSITIVITY
1. 88.0MHz (Mono), 8dBμ
2. 88.0MHz (Mono mode)
3. REC OUT, L1 to L5 Connect TP1 to GND.
4. Within 3% distortion factor.
* See Note 4.
FM3 HIGH RANGE SENSITIVITY
1. 108.0kHz (Mono), 8dBμ
2. 108.0MHz (Mono Mode)
3. REC OUT, L1 to L5 Conect TP1 to GND.
4. Within 3% distortion factor.
* For best result, repeat Step 2 and 3 two or three times.
* See Note 4.
FM1 FM OSC
1. No signal input
2. 87.5MHz
3. TP2, L7 Connect the DC Voltmeter TP2 and GND.
4. DC 3.5 ± 0.05V
FM8 DISTORTION FACTOR (STEREO)
1. 98.0MHZ (Stereo), 60dBμ
2. 98.0MHZ
3. REC OUT, T1
4. Less than 0.6% distortion factor. (Both channel)
* See Note 2.
MW
MW2 MW LOW RANGE SENSITIVITY
1. 603kHz (600kHz), 65dBμ
2. 603kHz (600kHz)
3. REC OUT, T1
4. Within 10% distortion factor.
MW3 MW HIGH RANGE SENSITIVITY
1. 1404kHz (1400kHz), 65dBμ
2. 1404kHz (1400kHz)
3. REC OUT, VC1
4. Within 10% distortion factor.
* For best result, repeat Step 2 and 3 two or three times.
MW5 TUNED INDICATION LEVEL
1. 999kHz (1000kHz), 75dBμ
2. 999kHz (1000kHz)
3. REC OUT, VR3
4. TUNED light up
* [L] Model confirmation only.
MW4 AM IF
1. 603kHz (600kHz), 74dBμ
2. 603kHz (600kHz)
3. REC OUT, T7
4. Maximum output.
MW1 MW OSC
1. No Signal input
2. 1404kHz (1400kHz)
3. TP2, T3 Connect the DC Voltmeter between TP2 and GND.
4. 6.7V ± 0.1V
NOTES:
1. Set the S.S.G. to 30% 1kHz of each.
2. Confirm that the sensitivity margin between Low and High Range sensitivities is within 6dBμ, otherwise readjust Low and High Range Sensitivity.
3. (kHz) in result & Remarks indicates the test frequencies is AM 10kHz STEP area.
LW
LW4 TUNED INDICATION LEVEL
1. 200kHz, 76dBμ
2. 200kHz
3. REC OUT, VR3
4. TUNED light up.
LW1 LW OSC
1. No Signal input
2. 351kHz
3. TP2, T4 Connect the DV Voltmeter between TP2 and GND.
4. 8.0V ± 0.1V
LW3 LW HIGH RANGE SENSITIVITY
1. 300kHz, 66dBμ
2. 300kHz
3. REC OUT, VC2
4. Within 10% distortion factor.
* For best result, repeat Step 2 and 3 two or three times.
LW2 LW LOW RANGE SENSITIVITY
1. 160kHz, 66dBμ
2. 160kHz
3. REC OUT, T2
4. Within 10% distortion factor.
NOTES:
1. Set the SSG to 30%, 1kHz of each.
2. Confirm that the sensitivity margin between Low and High Range sensitivities is within 6dBμ, otherwise readjust Low and High Range sensitivity.
VR1
TP1
TR11
B
T5
T6
IC 3
IC 2
R35
TP3
(19kHz)
VR2
VR3
T7
T4
T3
VC1
VC2
T1
T2
L7
L4
L3
L1
L2
L5
IC 1
TP2
(+BT)

V. PARTS LIST

ATTENTION

1. **When placing an order for parts, be sure to list Part No., Model No. and the description of each part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.**
2. **Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.**
3. **Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.**

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

2. HEAD BASE BLOCK

REF. NO.	PART NO.	DESCRIPTION
2-1x	BH-T2023A320A	HEAD BASE BLOCK
2-2	HP-H2206A010A	HEAD R/P PR4-8FU C
2-3	ZS-477876	PAN20×03STL CMT
2-4	ZS-536488	BID20×08STL CMT
2-5	ZG-402895	SP CS ANGLE ADJUST

- SP (Service Parts) Classification
- A small "x" indicates that this part is not shown in the Photo or Illustration.
- This number corresponds with the individual parts index number in that figure.
- This number corresponds with the Figure Number.

b) PC Board

6. MAIN PC BOARD

REF. NO.	PART NO.	DESCRIPTION
6-IC1	EI-324536	IC HD14049BP
6-IC2	EI-336801	IC MB8841-564M
6-C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
6-C1B	EC-350949	C MMY V 223M 250DC [J]
6-C1C	EC-338397	C MMY V 223M 125AC [C,A]
6-X1	EI-318384	OSC X'TAL NC-18C

- Symbols for primary destination
  [A]: AAL(U.S.A.) [S]: SAA(Australia)
  [B]: BEAB(England) [U]: U/T(Universal Area)
  [C]: CSA(Canada) [V]: VDE(W. Germany)
  [E]: CEE(Europe) [Y]: Custom Version
  [J]: JPN(Japan)
- SP (Service Parts) Classification
- These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

WARNING

⚠ (*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LE FABRICANT.

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref. No.	Part No.	Description
1	＊BT-366324	TRANS POWER A1021-BS
2	＊BT-366321-A	TRANS POWER A1021-CA
3	＊BT-366323	TRANS POWER A1021-EV
4	＊BT-366320	TRANS POWER A1021-U
5	ED-321269	D LED GL-5PR6 RED
6	ED-705414	D LED SE303A INFRARED
7	ED-361885	D LED SLP284C-51U GREEN
8	ED-367216	D PHOT PN323B-LF
9	ED-718039	D SILICON DAN201
10	ED-330319	D SILICON DBA10B 100／1.0A
11	ED-200749	D SILICON DBA60-K15 400／6.0A
12	ED-357754	D SILICON DS135D 200／1.0A
13	ED-348990	D SILICON H DS446
14	ED-301911	D SILICON H DS448
15	ED-344280	D SILICON H GMA-01-FY2 F05
16	ED-366337	D SILICON H 1SS241
17	ED-349460	D VARACTER SVC321 A,B,C,D DBL
18	ED-349448	D VARACTOR 1SV147
19	ED-365378	D ZENER H HZS13E F05 B2
20	ED-365463	D ZENER H HZS16E F05 B2
21	ED-346613	D ZENER H HZ11 C3
22	ED-315759	D ZENER H HZ16 1
23	ED-306316	D ZENER H HZ5 C2
24	ED-309069	D ZENER H HZ6 B2
25	ED-337265	D ZENER H HZ6 C2
26	ED-306012	D ZENER H HZ7 A3
27	ED-318859	D ZENER H HZ9 C2
28	＊EF-359007	FUSE BET T 250V 1.25A [B]
29	＊EF-358641	FUSE BET T 250V 800MA [B]
30	＊EF-602550	FUSE SEMKO T 250V 1.25A [E,V,S]
31	＊EF-258344	FUSE SEMKO T 250V 800MA [E,V,S]
32	＊EF-306950	FUSE TSC A 250V 2.00A [U]
33	＊EF-309388	FUSE TSC A 250V 800MA [U]
34	＊EF-310229	FUSE TSC 125V 1.00A [C,A]
35	＊EF-323080	FUSE TSC 125V 3.15A [C,A]
36	EH-344434	FILTER CE BFU450C4N 0.450MHZ
37	EH-355568	FILTER CE SFE10.7MS2GY-A
38	EH-338338	FILTER CE SFE10.7MS3GK-A [V]
39	EH-360924	FILTER LC BP BPMB6A
40	EH-363344	FILTER LC LP 123-5010-03 [V]
41	EH-370069	FILTER LC LP 42B-1081-00
42	EI-370303	IC A1021-A 9453
43	EI-354401	IC BU4066B
44	EI-361624	IC LA1265
45	EI-356370	IC LA7224
46	EI-361230	IC LC7580
47	EI-361622	IC LM7001
48	EI-337228	IC M5218L
49	EI-349719	IC M5218P
50	EI-344764	IC M5218P-21
51	EI-355211	IC M5227P
52	EI-300042	IC M54519P
53	＊EI-366366	IC STK4038II
54	EI-343373	IC TC9156AP
55	EI-366327	IC TC9162N
56	EI-349392	IC TC9164N
57	EI-351966	IC TC9176P
58	EI-351849	IC UPC1235C
59	EI-354080	IC UPC1237H
60	EI-749983	IC UPD1943G
61	EI-710037	OSC CE CSB455E 455KHZ
62	EI-330256	OSC CE F85-006 4MHZ
63	EI-344422	OSC X'TAL HC-18／U 7.200MHZ
64	EM-366356	IND LCD LCD9437P
65	＊EQ-337159	RELAY POW G4Z-2282P 2NO 24V
66	EQ-366328	RELAY SIG G4S 1112P-B 1NO 12V
67	ER-353343	R FUSE ERD2FC S10 1／4W 100J
68	＊ER-200595	R FUSE ERD2FC S10 1／4W 5R6J
69	＊ER-200746	R FUSE ERD2FC 1／4W 1000G
70	＊ER-353343	R FUSE ERD2FC S10 1／4W 100J
71	ER-365402	R CT P F09 PLATE 3W R10K
72	＊ES-366363	SW PUSH ESB621630 4 THROW
73	＊ES-337902	SW PUSH SDLD1P 01-1
74	＊ES-349070	SW SELECTOR YKS11-0002 02-4
75	ES-360115	SW SLIDE 00120262 01-02S
76	ES-349474	SW TACT SKHHAM004A
77	ES-359172	SW TACT SKHHAP
78	ES-366019	SW TACT 2401422-8A
79	ET-363953	TR DTA114TS
80	ET-360646	TR DTA143ES F05
81	ET-354415	TR DTA144ES
82	ET-353897	TR DTC114ES
83	ET-360399	TR DTC114TS
84	ET-354371	TR DTC124ES
85	ET-364060	TR DTC143ES
86	ET-354414	TR DTC144ES
87	ET-354094	TR DTC144WS
88	ET-349449	TR FET 2SK161 O,Y
89	ET-352055	TR FET 2SK170 V
90	ET-352408	TR FET 2SK192A GR
91	ET-337759	TR FET 2SK246 GR
92	ET-353899	TR 2SA1317 S,T,U
93	ET-349718	TR 2SA1392 S,T
94	ET-305463	TR 2SA970 GR,BL
95	ET-366365	TR 2SB1185 E,F
96	ET-307195	TR 2SC2240 GR,BL
97	ET-338410	TR 2SC2878 A,B
98	ET-336869	TR 2SC2999 C,D
99	ET-360067	TR 2SC3330 T,U F05
100	ET-349081	TR 2SC3383 S,T
101	ET-356437	TR 2SC930 D2,E,F
102	ET-328265	TR 2SC930 F
103	ET-718040	TR 2SD1468
104	ET-366581	TR 2SD1762 E,F
105	ET-310148	TR 2SD612K E,F
106	EV-366319	VR SPECIAL 2THROWX5 30MM
107	EZ-358816	BATTERY LITHIUM BR2032-1HF

2. P.C BOARD BLOCK

Ref. No.	Part No.	Description
2-1A	BA-A1021E030A	PC AUDIO INPUT BLK AA-V205(U) [EXCEPT V]
2-1B	BA-A1021E030B	PC AUDIO INPUT BLK AA-V205(V) [V]
2-2A	BA-A1021E040A	PC V-INPUT BLK AA-V205(U,C,A)
2-2B	BA-A1021E040B	PC V-INPUT BLK AA-V205(E,B,S)
2-2C	BA-A1021E040C	PC VIDEO INPUT BLK AA-V205(V)
2-3A	BA-A1021E070A	PC CONTROL BLK AA-V205(U)
2-3B	BA-A1021E070B	PC CONTROL BK AA-V205(C,A)
2-3C	BA-A1021E070C	PC CONTROL BLK AA-V205(E,V,S)
2-3D	BA-A1021E070D	PC CONTROL BLK AA-V205L(E,B)
2-4A	BA-A1021E090A	PC(#) MAIN BLK AA-V205(U)
2-4B	BA-A1021E090B	PC(#) MAIN BLK AA-V205(C,A)
2-4C	BA-A1021E090C	PC(#) MAIN BLK AA-V205(E,V,B,S)
2-4D	BA-A1021E090D	PC(#) MAIN BLK AA-V205(V)
2-5A	BA-A1021E100A	PC TUNER BLK AA-V205(U)
2-5B	BA-A1021E100B	PC TUNER BLK AA-V205(C,A)
2-5C	BA-A1021E100C	PC TUNER BLK AA-V205(E)
2-5D	BA-A1021E100D	PC TUNER BLK AA-V205(V)
2-5E	BA-A1021E100E	PC TUNER BLK AA-V205(S)
2-5F	BA-A1021E100F	PC TUNER BLK AA-V205L(E,B)
2-6A	BA-F0141C010A	PC FRONT END BLK FE41(U) [EXCEPT V]
2-6B	BA-F0141A010B	PC FRONT END BLK FE41(V) [V]

NOTE: (1) PC CONTROL BLK consists of following PC BOARDS.
*CONTROL PC BOARD, *OPERATION PC BOARD, *IND PC BOARD, *TACT SW PC BOARD.

NOTE: (2) PC (#) MAIN BLK consists of following PC BOARDS.
*MAIN PC BOARD, *HEAD PHONE PC BOARD, *PL PC BOARD.

3. MAIN P.C BOARD

Ref. No.	Part No.	Description
3-C1	EC-366358	C EC V CUT 682M 50.0DC
3-C2	EC-366358	C EC V CUT 682M 50.0DC
3-C3	EC-324109	C STY V S05 CQFS 181J 50DC
3-C4	EC-324109	C STY V S05 CQFS 181J 50DC
3-C14	EC-328070	C CE V F05 SL 101K 500DC
3-C17	EC-328070	C CE V F05 SL 101K 500DC
3-D1	*ED-200749	D SILICON DBA60-K15 400/6.0A
3-D2	*ED-330319	D SILICON DBA10B 100/1.0A
3-D3	ED-365463	D ZENER H HZS16E F05 B2
3-D4	ED-365463	D ZENER H HZS16E F05 B2
3-D5	ED-315759	D ZENER H HZ16 1
3-D6	ED-346613	D ZENER H HZ11 C3
3-D7	ED-309069	D ZENER H HZ6 B2
3-D8	ED-309069	D ZENER H HZ6 B2
3-D9	ED-301911	D SILICON H DS448
3-D10	ED-315759	D ZENER H HZ16 1
3-D11	ED-348990	D SILICON H DS446
3-D12	ED-348990	D SILICON H DS446
3-D13	ED-348990	D SILICON H DS446
3-D14	ED-301911	D SILICON H DS448
3-D15	ED-301911	D SILICON H DS448
3-D16	ED-301911	D SILICON H DS448
3-D17	ED-365378	D ZENER H HZS13E F05 B2
3-D18	ED-306012	D ZENER H HZ7 A3
3-D19	ED-337265	D ZENER H HZ6 C2
3-IC1	*EI-366366	IC STK4038II
3-IC2	EI-354080	IC UPC1237H
3-L1	EO-332116	COIL FIX 2 103AK-006A 2R2K
3-RL1	*EQ-337159	RELAY POW G4Z-2282P 2NO 24V
3-RL2	*EQ-337159	RELAY POW G4Z-2282P 2NO 24V
3-R1	ER-316802	R CB H S10 FS RDS 1/4W 471J
3-R2	ER-316802	R CB H S10 FS RDS 1/4W 471J
3-R3	ER-200944	R CB H S10 FS RDS 1/4W 152J
3-R4	ER-200944	R CB H S10 FS RDS 1/4W 152J
3-R5	ER-316802	R CB H S10 FS RDS 1/4W 471J
3-R6	ER-316802	R CB H S10 FS RDS 1/4W 471J
3-R7	ER-333074	R OMF H S20 FS 2W 910J
3-R8	ER-333074	R OMF H S20 FS 2W 910J
3-R10	*ER-353343	R FUSE ERD2FC S10 1/4W 100J
3-R12	*ER-353343	R FUSE ERD2FC S10 1/4W 100J
3-R20	*ER-353343	R FUSE ERD2FC S10 1/4W 100J
3-R23	ER-365331	R OMF H S15 FS 1W 822J
3-R30	*ER-200746	R FUSE ERD2FC 1/4W 1000G
3-R32	*ER-200746	R FUSE ERD2FC 1/4W 1000G
3-R33	ER-365402	R CT P F09 PLATE 3W R10K
3-R37	ER-359520	R OMF H S20 FS 2W 120J
3-R40	ER-366389	R OMF H S15 FS 1W 183J
3-R44	ER-359520	R OMF H S20 FS 2W 120J
3-R49	ER-333067	R OMF H S20 FS 2W 821J
3-R50	ER-333067	R OMF H S20 FS 2W 821J
3-R51	*ER-200595	R FUSE ERD2FC S10 1/4W 5R6J
3-R53	ER-316802	R CB H S10 FS RDS 1/4W 471J
3-R54	ER-333023	R OMF H S20 FS 2W 100J
3-R55	*ER-353343	R FUSE ERD2FC S10 1/4W 100J
3-SW1	ES-366363	SW PUSH ESB621630 4 THROW
3-TR1	ET-337759	TR FET 2SK246 GR
3-TR2	ET-337759	TR FET 2SK246 GR
3-TR3	*ET-366581	TR 2SD1762 E,F
3-TR4	*ET-366365	TR 2SB1185 E,F
3-TR5	ET-349081	TR 2SC3383 S,T
3-TR6	ET-349718	TR 2SA1392 S,T
3-TR7	*ET-366581	TR 2SD1762 E,F
3-TR8	*ET-366365	TR 2SB1185 E,F
3-TR9	ET-349718	TR 2SA1392 S,T
3-TR10	ET-349081	TR 2SC3383 S,T
3-TR11	*ET-310148	TR 2SD612K E,F
3-TR12	ET-352055	TR FET 2SK170 V
3-TR13	ET-307195	TR 2SC2240 GR,BL
3-TR14	ET-305463	TR 2SA970 GR,BL
3-TR15	ET-337759	TR FET 2SK246 GR
3-TR16	*ET-366581	TR 2SD1762 E,F
3-F3A	*EF-309388	FUSE TSC A 250V 800MA [U]
3-F3B	*EF-310229	FUSE TSC 125V 1.00A [C,A]
3-F3C	*EF-258344	FUSE SEMKO T 250V 800MA [E,V,S]
3-F3D	*EF-358641	FUSE BET T 250V 800MA [B]
3-F4A	*EF-309388	FUSE TSC A 250V 800MA [U]
3-F4B	*EF-310229	FUSE TSC 125V 1.00A [C,A]
3-F4C	*EF-258344	FUSE SEMKO T 250V 800MA [E,V,S]
3-F4D	*EF-358641	FUSE BET T 250V 800MA [B]

4. TUNER P.C BOARD

Ref. No.	Part No.	Description
4-D1	ED-306316	D ZENER H HZ5 C2
4-D2	ED-344280	D SILICON H GMA-01-FY2 F05
4-D3	ED-318859	D ZENER H HZ9 C2
4-D4	ED-349460	D VARACTER SVC321 A,B,C,D DBL
4-D5	ED-349460	D VARACTER SVC321 A,B,C,D DBL
4-D6	ED-344280	D SILICON H GMA-01-FY2 F05 [AA-V205L]
4-D7	ED-344280	D SILICON H GMA-01-FY2 F05 [AA-V205L]
4-D8	ED-344280	D SILICON H GMA-01-FY2 F05
4-D9	ED-344280	D SILICON H GMA-01-FY2 F05
4-D10	ED-344280	D SILICON H GMA-01-FY2 F05
4-D11	ED-344280	D SILICON H GMA-01-FY2 F05
4-FL1	EH-355568	FILTER CE SFE10.7MS2GY-A [EXCEPT V]
4-FL1A	EH-338338	FILTER CE SFE10.7MS3GK-A [V]
4-FL2	EH-355568	FILTER CE SFE10.7MS2GY-A
4-FL3	EH-344434	FILTER CE BFU450C4N 0.450MHZ
4-FL4	EH-363344	FILTER LC LP 123-5010-03 [V]
4-FL6	EH-370069	FILTER LC LP 42B-1081-00
4-FL7	EH-370069	FILTER LC LP 42B-1081-00
4-FL8	EH-360924	FILTER LC BP BPMB6A [V]
4-IC1	EI-361622	IC LM7001
4-IC2	EI-361624	IC LA1265
4-IC3	EI-351849	IC UPC1235C
4-R10	ER-365172	R OMF H S12 FS 1W 331J
4-R16	ER-327710	R CB H S10 FS RDS 1/4W 151J
4-R25	ER-306805	R CB H S15 FS RDS 1/2W 101J
4-R31	ER-327710	R CB H S10 FS RDS 1/4W 151J
4-R35	ER-333406	R CB H S10 FS RDS 1/4W 363J
4-R59	ER-327710	R CB H S10 FS RDS 1/4W 151J
4-TM1	EJ-359031	TERMINAL LEVER YKD31-0215 P 2P
4-T1	EO-337598	COIL VARI 2 25A-1353-01 [AA-V205L]
4-T1A	EO-370070	COIL VARI 2 25A-5463-30 [AA-V205L]
4-T2	EO-337599	COIL VARI 2 25A-1354-03 [AA-V205L]
4-T3	EO-363279	COIL OSC 2 A7NRS-9857X 150.0UH
4-T4	EO-352089	COIL OSC 2 7BRS-9098X 580.0UH [AA-V205L]
4-T5	EO-363291	COIL DET 2 78-1128-01
4-T6	EO-361630	COIL DET 2 78-1126-02
4-T7	EO-356732	COIL IFT BCFLZ-450A
4-TR1	ET-337759	TR FET 2SK246 GR
4-TR2	ET-349081	TR 2SC3383 S,T
4-TR3	ET-353899	TR 2SA1317 S,T,U
4-TR4	ET-353899	TR 2SA1317 S,T,U
4-TR5	ET-338410	TR 2SC2878 A,B [AA-V205L]
4-TR6	ET-352408	TR FET 2SK192A GR [AA-V205L]
4-TR7	ET-354094	TR DTC144WS [AA-V205L]
4-TR8	ET-354094	TR DTC144WS [AA-V205L]
4-TR9	ET-353897	TR DTC114ES [AA-V205L]
4-TR10	ET-356437	TR 2SC930 D2,E,F
4-TR11	ET-308141	TR 2SC2603 G F05
4-TR12	ET-308141	TR 2SC2603 G F05
4-TR13	ET-349081	TR 2SC3383 S,T
4-TR14	ET-349081	TR 2SC3383 S,T
4-TR15	ET-354094	TR DTC144WS
4-VC1	EC-359065	C S-FIX H CTC-6U-020 4.3-20 [AA-V205L]
4-VC1A	EC-363331	C S-FIX H CTC-6U-030 5.5-30 [AA-V205L]
4-VC2	EC-370071	C S-FIX H CTC-6U-040 7.7-40 [AA-V205L]
4-VR1	EV-361673	R S-FIX H RH0615CN5J 3P 334
4-VR2	EV-356576	R S-FIX H RH0615CS3J 3P 472
4-VR3	EV-356577	R S-FIX H RH0615C14J 3P 103
4-X1	EI-344422	OSC X'TAL HC-18/U 7.200MHZ

5. CONTROL P.C BOARD

Ref. No.	Part No.	Description
5-BT1	*EZ-358816	BATTERY LITHIUM BR2032-1HF
5-D1	ED-301911	D SILICON H DS448 [AA-V205L]
5-D3	ED-301911	D SILICON H DS448 [C,A]
5-D4	ED-301911	D SILICON H DS448 [U]
5-D5	ED-301911	D SILICON H DS448
5-D6	ED-301911	D SILICON H DS448
5-D7	ED-301911	D SILICON H DS448
5-IB1	EH-366351	COMP R RKC8BS 472J
5-IB2	EH-366351	COMP R RKC8BS 472J
5-IB3	EH-361669	COMP R RKC4BS 472J
5-IB4	EH-361669	COMP R RKC4BS 472J
5-IB5	EH-366353	COMP R RKC7BS 472J
5-IC1	EI-370303	IC A1021-A 9453
5-IC2	EI-356370	IC LA7224
5-IC3	EI-300042	IC M54519P
5-L1	EO-330719	COIL FIX 1 187LY-103K 103K
5-TR1	ET-360646	TR DTA143ES F05
5-TR2	ET-364060	TR DTC143ES
5-TR3	ET-354415	TR DTA144ES [U]
5-TR4	ET-354371	TR DTC124ES
5-X1	EI-330256	OSC CE F85-006 4MHZ

6. OPERATION P.C BOARD

Ref. No.	Part No.	Description
6-D10	ED-367216	D PHOT PN323B-LF
6-D11	ED-321269	D LED GL-5PR6 RED
6-D12	ED-361885	D LED SLP284C-51U GREEN
6-D13	ED-361885	D LED SLP284C-51U GREEN
6-D14	ED-361885	D LED SLP284C-51U GREEN
6-D15	ED-361885	D LED SLP284C-51U GREEN
6-D16	ED-361885	D LED SLP284C-51U GREEN
6-D17	ED-361885	D LED SLP284C-51U GREEN
6-D18	ED-361885	D LED SLP284C-51U GREEN
6-D19	ED-361885	D LED SLP284C-51U GREEN
6-D20	ED-361885	D LED SLP284C-51U GREEN
6-D21	ED-361885	D LED SLP284C-51U GREEN
6-D22	ED-361885	D LED SLP284C-51U GREEN
6-D23	ED-361885	D LED SLP284C-51U GREEN
6-D24	ED-361885	D LED SLP284C-51U GREEN
6-D25	ED-361885	D LED SLP284C-51U GREEN
6-D26	ED-361885	D LED SLP284C-51U GREEN
6-D27	ED-361885	D LED SLP284C-51U GREEN
6-TS10	ES-349474	SW TACT SKHHAM004A
6-TR11	ES-349474	SW TACT SKHHAM004A
6-TS12	ES-349474	SW TACT SKHHAM004A
6-TS13	ES-349474	SW TACT SKHHAM004A
6-TS14	ES-349474	SW TACT SKHHAM004A
6-TS15	ES-349474	SW TACT SKHHAM004A
6-TS16	ES-349474	SW TACT SKHHAM004A
6-TS17	ES-349474	SW TACT SKHHAM004A
6-TS18	ES-349474	SW TACT SKHHAM004A
6-TS19	ES-349474	SW TACT SKHHAM004A
6-TS20	ES-349474	SW TACT SKHHAM004A
6-TS21	ES-349474	SW TACT SKHHAM004A
6-TS22	ES-349474	SW TACT SKHHAM004A
6-TS23	ES-349474	SW TACT SKHHAM004A
6-TS24	ES-349474	SW TACT SKHHAM004A
6-TS25	ES-349474	SW TACT SKHHAM004A
6-TS26	ES-349474	SW TACT SKHHAM004A
6-TS27	ES-349474	SW TACT SKHHAM004A
6-TS28	ES-349474	SW TACT SKHHAM004A
6-TS29	ES-349474	SW TACT SKHHAM004A
6-TS30	ES-349474	SW TACT SKHHAM004A
6-TS31	ES-349474	SW TACT SKHHAM004A
6-TS32	ES-349474	SW TACT SKHHAM004A
6-TS33	ES-349474	SW TACT SKHHAM004A
6-TS34	ES-349474	SW TACT SKHHAM004A

7. RF P.C BOARD

Ref. No.	Part No.	Description
7-D1	ED-344280	D SILICON H GMA-01-FY2 F05
7-D2	ED-344280	D SILICON H GMA-01-FY2 F05
7-D3	ED-344280	D SILICON H GMA-01-FY2 F05
7-D4	ED-344280	D SILICON H GMA-01-FY2 F05
7-D5	ED-344280	D SILICON H GMA-01-FY2 F05
7-D6	ED-344280	D SILICON H GMA-01-FY2 F05
7-D7	ED-366337	D SILICON H 1SS241
7-D8	ED-366337	D SILICON H 1SS241
7-D9	ED-366337	D SILICON H 1SS241
7-D10	ED-366337	D SILICON H 1SS241
7-D11	ED-366337	D SILICON H 1SS241
7-D12	ED-366337	D SILICON H 1SS241
7-D13	ED-366337	D SILICON H 1SS241
7-D14	ED-366337	D SILICON H 1SS241
7-D15	ED-366337	D SILICON H 1SS241
7-TM1	EJ-366338	JACK PLATE F CONNECTOR 4P
7-TR1	ET-363953	TR DTA114TS
7-TR2	ET-363953	TR DTA114TS
7-TR3	ET-363953	TR DTA114TS

8. VIDEO P.C BOARD

Ref. No.	Part No.	Description
8-IC1	EI-344764	IC M5218P-21
8-IC2	EI-354401	IC BU4066B
8-IC3	EI-354401	IC BU4066B
8-PJ1	EJ-366334	PIN J T5858 P 4P
8-PJ2	EJ-366335	PIN J T6125-BAAA P 3P
8-PJ3	EJ-366335	PIN J T6125-BAAA P 3P
8-R9	ER-327710	R CB H S10 FS RDS 1/4W 151J
8-R10	ER-327710	R CB H S10 FS RDS 1/4W 151J
8-TR1	ET-360067	TR 2SC3330 T,U F05
8-TR2	ET-360067	TR 2SC3330 T,U F05
8-TR3	ET-360067	TR 2SC3330 T,U F05
8-TR4	ET-360067	TR 2SC3330 T,U F05
8-TR5	ET-360067	TR 2SC3330 T,U F05
8-TR6	ET-363953	TR DTA114TS
8-TR7	ET-363953	TR DTA114TS
8-TR8	ET-363953	TR DTA114TS
8-TR9	ET-360399	TR DTC114TS
8-TR10	ET-360399	TR DTC114TS

9. FRONT END P.C BOARD

Ref. No.	Part No.	Description
9-D1	ED-349448	D VARACTOR 1SV147
9-D2	ED-349448	D VARACTOR 1SV147
9-D3	ED-349448	D VARACTOR 1SV147
9-D4	ED-349448	D VARACTOR 1SV147
9-L1	EO-349461	COIL FIX 2 LINK
9-L2	EO-349462	COIL FIX 2 U147
9-L3	EO-349461	COIL FIX 2 LINK
9-L4	EO-349462	COIL FIX 2 U147
9-L5	EO-349462	COIL FIX 2 U147
9-L6	EO-359056	COIL FIX 1 LAL03NA 2R2M
9-L7	EO-353687	COIL OSC 2 E525HN-110003
9-TR1	ET-349449	TR FET 2SK161 O,Y
9-TR2	ET-336869	TR 2SC2999 C,D
9-TR3	ET-328265	TR 2SC930 F
9-TR4	ET-349449	TR FET 2SK161 O,Y
9-T1	EO-337640	COIL IFT 119AC-15533X 10.7MHZ

10. AUDIO INPUT P.C BOARD

Ref. No.	Part No.	Description
10-D1	ED-357754	D SILICON DS135D 200/1.0A
10-IC1	EI-349392	IC TC9164N
10-IC2	EI-366327	IC TC9162N
10-IC3	EI-337228	IC M5218L
10-IC4	EI-337228	IC M5218L
10-PJ1	EJ-366329	PIN J T5813 P 6P
10-PJ2	EJ-366330	PIN J T6127 P 6P
10-PJ3	EJ-366331	PIN J T6127-AABA W/SWP 6P
10-PJ4	EJ-366332	PIN J T6138-AABA P 2P
10-RL1	EQ-366328	RELAY SIG G4S 1112P-B 1N0 12V
10-R10	ER-321619	R OMF H S15 FS 1W 101J
10-TM1	EJ-349061	TERMINAL PUSH YKD21-0025 PBP
10-TR1	ET-360067	TR 2SC3330 T,U F05
10-TR2	ET-360067	TR 2SC3330 T,U F05

11. CONNECTION P.C BOARD

Ref. No.	Part No.	Description
11-D1	ED-337265	D ZENER H HZ6 C2
11-D2	ED-337265	D ZENER H HZ6 C2
11-IC1	EI-337228	IC M5218L
11-IC2	EI-337228	IC M5218L
11-IC3	EI-343373	IC TC9156AP
11-IC4	EI-349719	IC M5218P
11-IC5	EI-351966	IC TC9176P
11-J1	EJ-346076	DIN J TCS4690-01-1111 P 8P
11-R10	ER-323074	R CB H S10 FS RDS 1/4W 102J
11-R11	ER-323074	R CB H S10 FS RDS 1/4W 102J
11-SW1	ES-360115	SW SLIDE 00120262 01-02S
11-TS1	ES-366019	SW TACT 2401422-8A

12. POWER SW P.C BOARD

Ref. No.	Part No.	Description
12-C1	∗EC-320548	C CE V F 103Z 250AC [U]
12-C1A	∗EC-338411	C CE V FZ 103P 400AC [C,A]
12-C1B	∗EC-338496	C CE V FZ 472P 400AC [E,V,B,S]
12-R1	∗ER-356573	R SD ANTI-STATIC 1/2W 225K [C,A]
12-SW1	∗ES-337902	SW PUSH SDLD1P 01-1
12-F1A	∗EF-306950	FUSE TSC A 250V 2.00A [U]
12-F1B	∗EF-323080	FUSE TSC 125V 3.15A [C,A]
12-F1C	∗EF-602550	FUSE SEMKO T 250V 1.25A [E,V,S]
12-F1D	∗EF-359007	FUSE BET T 250V 1.25A [B]
12-F2	∗EF-306950	FUSE TSC A 250V 2.00A [U]

13. GRAPHIC EQUALIZER P.C BOARD

Ref. No.	Part No.	Description
13-IC1	EI-337228	IC M5218L
13-IC2	EI-355211	IC M5227P
13-VR901	EV-366319	VR SPECIAL 2THROWX5 30MM

14. IND P.C BOARD

Ref. No.	Part No.	Description
14-IC40	EI-361230	IC LC7580
14-IND40	EM-366356	IND LCD LCD9437P
14-PL40	EL-366367	PL CORD 14.0V100MA L=80

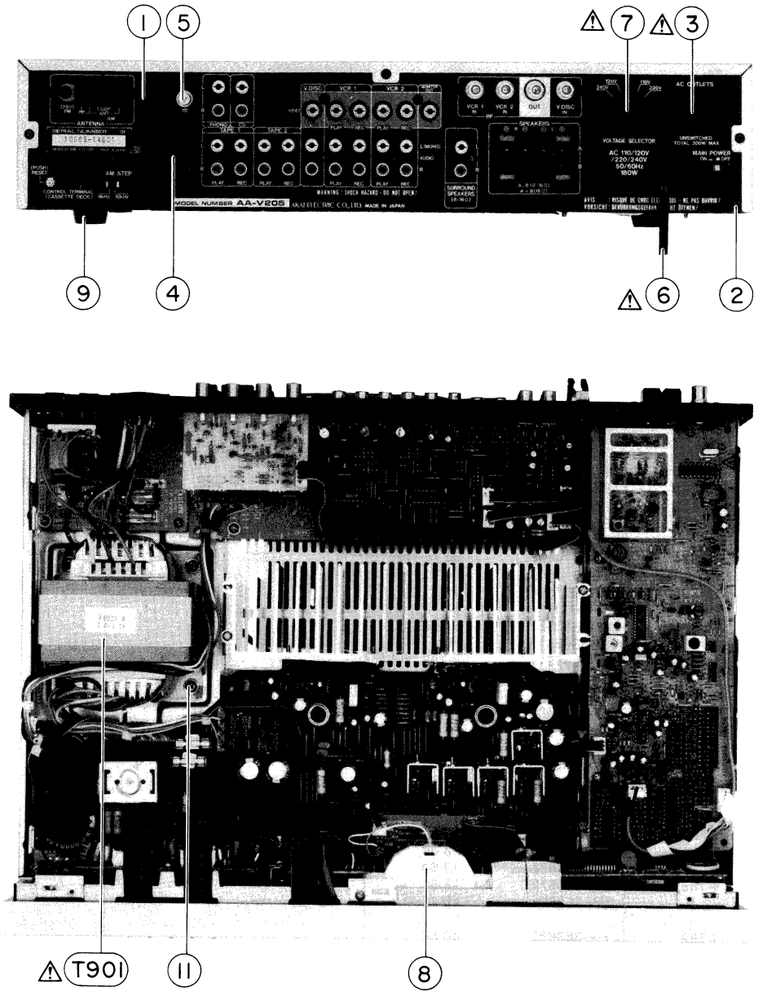
15. TACT SW P.C BOARD

Ref. No.	Part No.	Description
15-TS50	ES-359172	SW TACT SKHHAP

16. HEADPHONE P.C BOARD

Ref. No.	Part No.	Description
16-J1	EJ-355012	PHONE J 3P HLJ0541-010 6.3
16-R1	ER-333086	R OMF H S20 FS 2W 331J

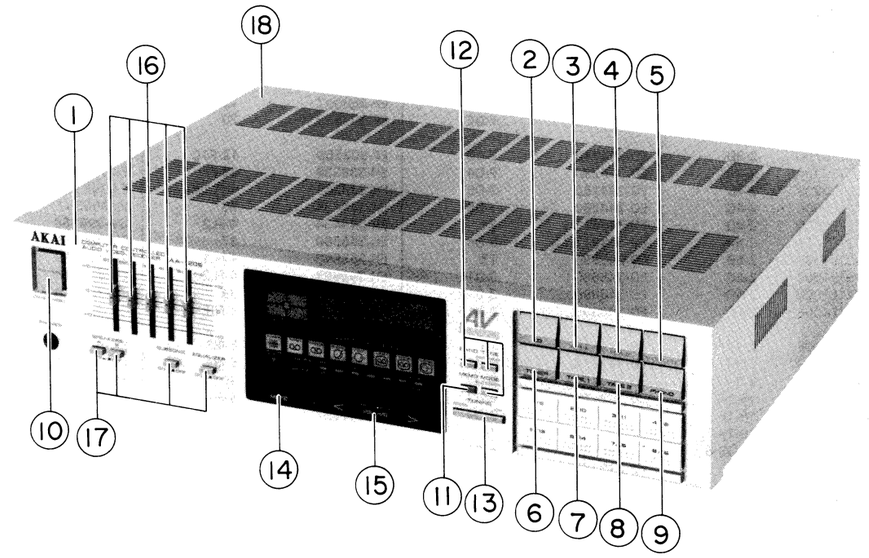
ASSEMBLY BLOCK



18. ASSEMBLY BLOCK

Ref. No.	Part No.	Description
18-1A	SP-366176A	PANEL REAR AA-V205(U)
18-1B	SP-366176B	PANEL REAR AA-V205(A,C)
18-1C	SP-366176C	PANEL REAR AA-V205(E,V)
18-1D	SP-366176D	PANEL REAR AA-205(S)
18-1E	SP-366176E	PANEL REAR AA-V205L(E)
18-1F	SP-366176F	PANEL REAR AA-V205L(B)
18-2	ZS-308846	T2BR30X08STL BZN PROJECTION [PANEL REAR FIX]
18-3	EJ-349174	SOCKET OUTLET S2-732T-122
18-4	SZ-362273	HOLDER ANTENNA (2)
18-5	EJ-366318	TERMIMAL W／S SCREW UB-0060
18-6A	＊EW-363658	AC CORD 200 0129AVFF B100 A U／T [U]
18-6B	＊EW-363646	AC CORD 200 238APSPT2 B100 A UC [C,A]
18-6C	＊EW-363672	AC CORD 200 0364 LCFL B070 A EV [E,V]
18-6D	＊EW-363698	AC CORD 200 0436 LCFL B070 A S [S]
18-6E	＊EW-363684	AC CORD 200 LCFL B070 A B [B]
18-7	＊ES-349070	SW SELECTOR YKS11-0002 02-4 [U]
18-8	EZ-361808	HOLDER LAMP EQ300-42101A WHITE
18-9	SA-202118	FOOT
18-10X	ZS-331567	T2BR30X08STL CMT C080 [FOOT FIX]
18-11	ZS-346742	ST BID40X08STL CMT CUP [TRANS POWER FIX]
18-T901A	＊BT-366320	TRANS POWER A1021-U [U]
18-T901B	＊BT-366321-A	TRANS POWER A1021-CA [C,A]
18-T901C	＊BT-366323	TRANS POWER A1021-EV [E,V]
18-T901D	＊BT-366324	TRANS POWER A1021-BS [B,S]
18-13X	EE-359265	ANT LOOP LA-200A-A

FINAL ASSEMBLY BLOCK



19. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
19-1A	BD-A1021E110A	PANEL FRONT BLK AA-V205
19-1A-B	BD-A1021E110C	PANEL FRONT BLK AA-V205-B
19-1B	BD-A1021E110B	PANEL FRONT BLK AA-V205L
19-1B-B	BD-A1021E110D	PANEL FRONT BLK AA-V205L-B
19-2	SK-361870D	KNOB SELECTOR (A) CD
19-2-B	SK-361870H	KNOB SELECTOR (A)-B CD
19-3	SK-361870V	KNOB SELECTOR (A) VCR1
19-3-B	SK-366381B	KNOB SELECTOR (A)-B VCR1
19-4	SK-361870W	KNOB SELECTOR (A) VCR2
19-4-B	SK-366381C	KNOB SELECTOR (A)-B VCR2
19-5	SK-361870X	KNOB SELECTOR (A) V.DISK／TV
19-5-B	SK-366381D	KNOB SELECTOR (A)-B V.DISK／TV
19-6	SK-361870S	KNOB SELECTOR (A) TUNER
19-6-B	SK-361870Y	KNOB SELECTOR (A)-B TUNER
19-7	SK-361870T	KNOB SELECTOR (A) TAPE 1
19-7-B	SK-361870Z	KNOB SELECTOR (A)-B TAPE 1
19-8	SK-361870U	KNOB SELECTOR (A) TAPE 2
19-8-B	SK-366381A	KNOB SELECTOR (A)-B TAPE 2
19-9	SK-361870E	KNOB SELECTOR (A) PHONO
19-9-B	SK-361870J	KNOB SELECTOR (A)-B PHONO
19-10	SK-343017C	KNOB POWER (2)
19-10-B	SK-343017F	KNOB POWER-B
19-11	SK-365781D	KNOB PUSH (RED)
19-12	SK-365781C	KNOB PUSH
19-12-B	SK-365781B	KNOB PUSH-B
19-13	SK-366139A	KNOB TUNING
19-13-B	SK-366139B	KNOB TUNING-B
19-14	SK-366141	KNOB MUTE
19-15	SK-366140	KNOB VR
19-16	SK-366143A	KNOB EQ
19-16-B	SK-366143B	KNOB EQ-B
19-17	SK-366179A	KNOB SP
19-17-B	SK-366179B	KNOB SP-B
19-18	SP-366138A	COVER UPPER
19-18-B	SP-366138B	COVER UPPER-B

SYMBOL FOR COLOR VARIATION
NON : SILVER
B : BLOCK

20. REMOCON CONTROL UNIT RC-A905

Ref. No.	Part No.	Description
20-1	AX-366325	REMOCON RC-A905 WIRELESS (T)
20-1-B	AX-362546	REMOCON RC-A905-B WIRELESS(T)
20-D1	ED-705414	D LED SE303A INFRARED
20-D3	ED-718039	D SILICON DAN201
20-D4	ED-718039	D SILICON DAN201
20-IC1	EI-749983	IC UPD1943G
20-TR1	ET-718040	TR 2SD1468
20-X1	EI-710037	OSC CE CSB455E 455KHZ
20-2	SC-718689	COVER BATTERY
20-2-B	SC-718690	COVER BATTERY-B

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AX-366325	20-1	ED-344280	4-D2	EF-310229	3-F4B	EJ-349174	18-3
BA-A1021E030A	2-1A	ED-344280	4-D6	EF-323080	35	EJ-355012	16-J1
BA-A1021E030B	2-1B	ED-344280	4-D7	EF-323080	12-F1B	EJ-359031	4-TM1
BA-A1021E040A	2-2A	ED-344280	4-D8	EF-358641	29	EJ-366318	18-5
BA-A1021E040B	2-2B	ED-344280	4-D9	EF-358641	3-F3D	EJ-366329	10-PJ1
BA-A1021E040C	2-2C	ED-344280	4-D10	EF-358641	3-F4D	EJ-366330	10-PJ2
BA-A1021E070A	2-3A	ED-344280	4-D11	EF-359007	28	EJ-366331	10-PJ3
BA-A1021E070B	2-3B	ED-344280	7-D1	EF-359007	12-F1D	EJ-366332	10-PJ4
BA-A1021E070C	2-3C	ED-344280	7-D2	EF-602550	30	EJ-366334	8-PJ1
BA-A1021E070D	2-3D	ED-344280	7-D3	EF-602550	12-F1C	EJ-366335	8-PJ2
BA-A1021E090A	2-4A	ED-344280	7-D4	EH-338338	38	EJ-366335	8-PJ3
BA-A1021E090B	2-4B	ED-344280	7-D5	EH-338338	4-FL1A	EJ-366338	7-TM1
BA-A1021E090C	2-4C	ED-344280	7-D6	EH-344434	36	EL-366367	14-PL40
BA-A1021E090D	2-4D	ED-346613	21	EH-344434	4-FL3	EM-366356	64
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BA-A1021E100B	2-5B	ED-348990	13	EH-355568	4-FL1	EO-330719	5-L1
BA-A1021E100C	2-5C	ED-348990	3-D11	EH-355568	4-FL2	EO-332116	3-L1
BA-A1021E100D	2-5D	ED-348990	3-D12	EH-360924	39	EO-337598	4-T1
BA-A1021E100E	2-5E	ED-348990	3-D13	EH-360924	4-FL8	EO-337599	4-T2
BA-A1021E100F	2-5F	ED-349448	18	EH-361669	5-IB3	EO-337640	9-T1
BA-F0141A010B	2-6B	ED-349448	9-D1	EH-361669	5-IB4	EO-349461	9-L1
BA-F0141C010A	2-6A	ED-349448	9-D2	EH-363344	40	EO-349461	9-L3
BD-A1021E110A	19-1A	ED-349448	9-D3	EH-363344	4-FL4	EO-349462	9-L2
BD-A1021E110B	19-1B	ED-349448	9-D4	EH-366351	5-IB1	EO-349462	9-L4
BD-A1021E110C	19-1A-B	ED-349460	17	EH-366351	5-IB2	EO-349462	9-L5
BD-A1021E110D	19-1B-B	ED-349460	4-D4	EH-366353	5-IB5	EO-352089	4-T4
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BT-366320	18-T901A	ED-357754	12	EH-370069	4-FL6	EO-356732	4-T7
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BT-366321-A	18-T901B	ED-361885	7	EI-300042	52	EO-361630	4-T6
BT-366323	3	ED-361885	6-D12	EI-300042	5-IC3	EO-363279	4-T3
BT-366323	18-T901C	ED-361885	6-D13	EI-330256	62	EO-363291	4-T5
BT-366324	1	ED-361885	6-D14	EI-330256	5-X1	EO-370070	4-T1A
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AKAI

MODEL AA-V205

SCHEMATIC DIAGRAM AND PC BOARDS

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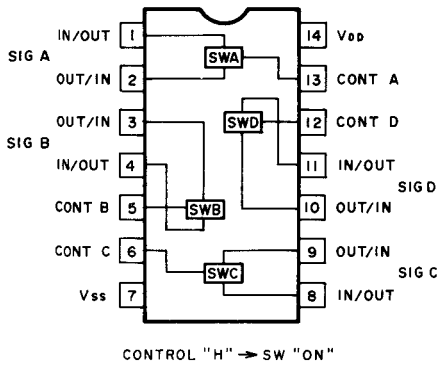
BU4066B



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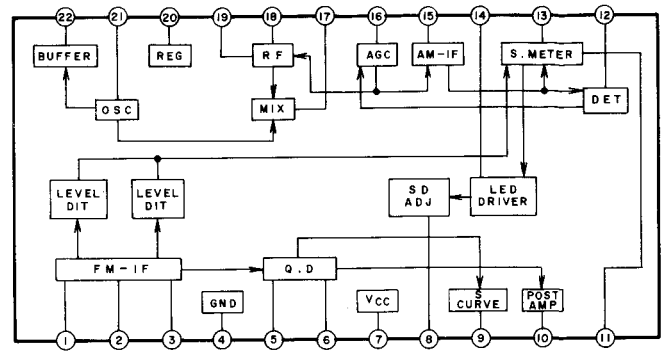
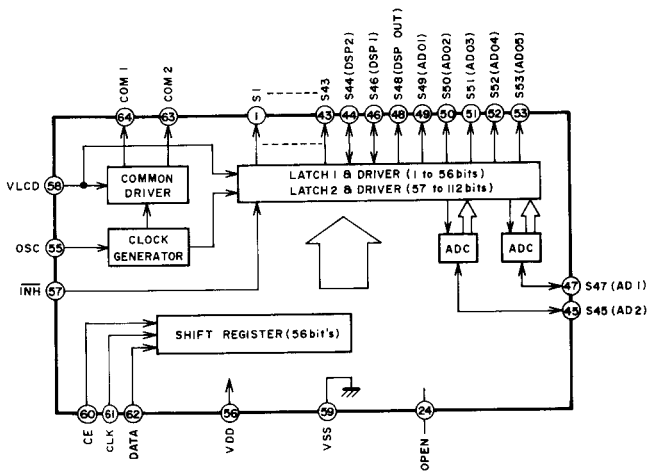
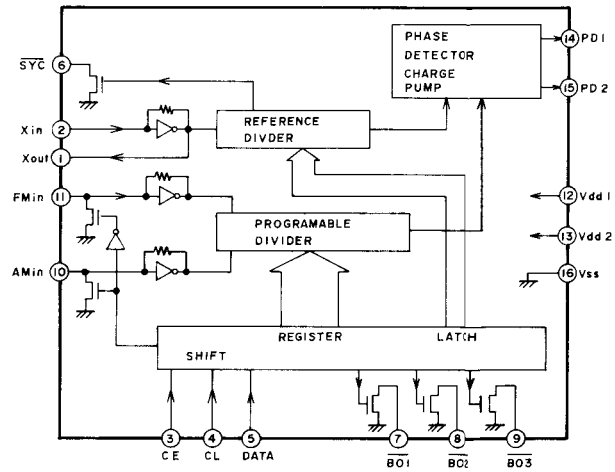


LC7580



LM7001



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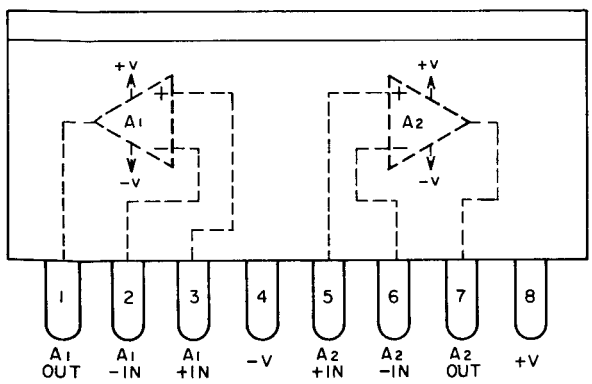
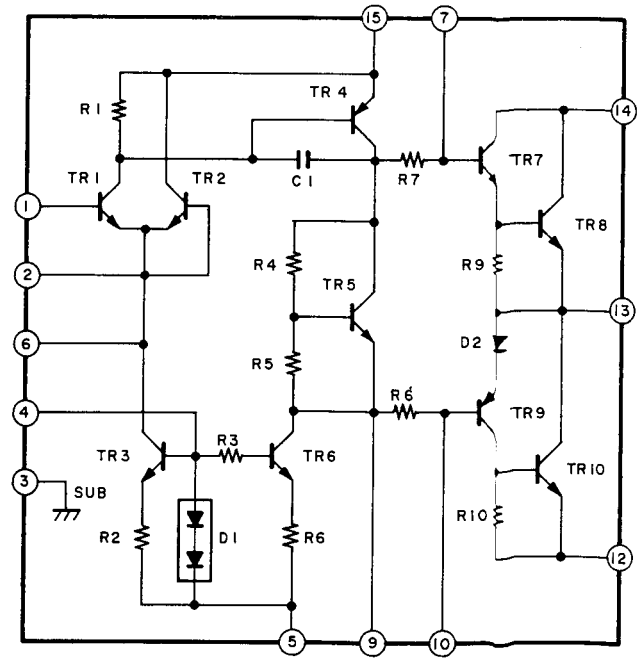
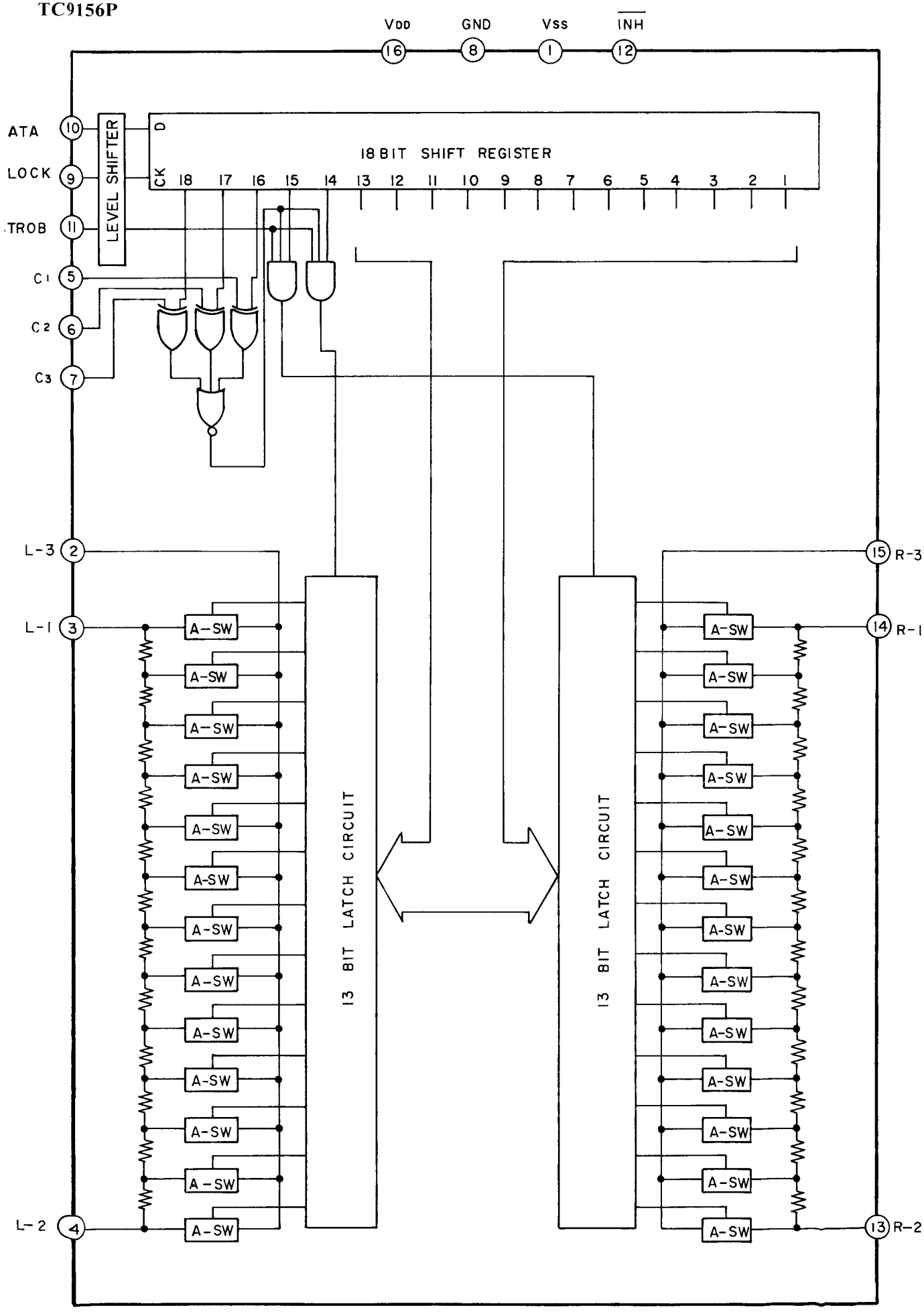
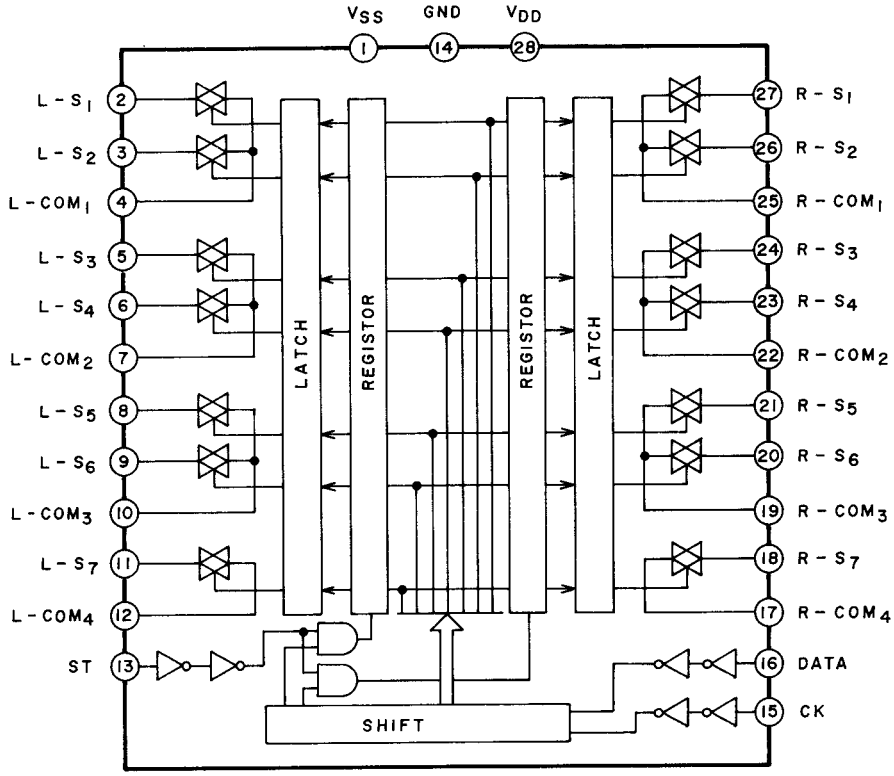


STK-4038-II

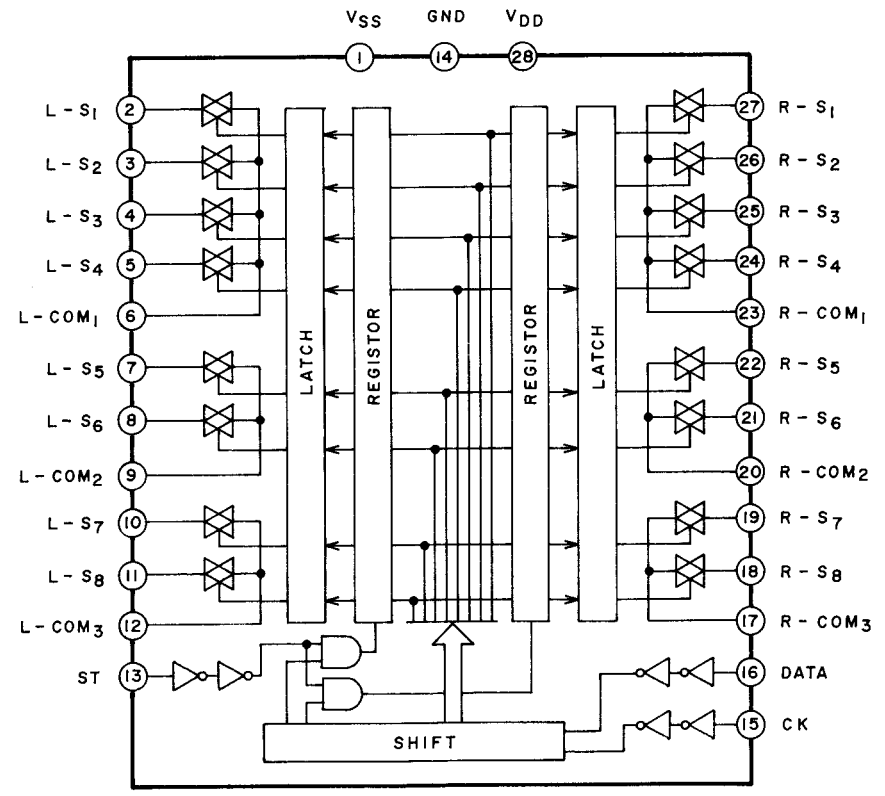



VDD
GND
VSS
INH
16
8
1
12
ATA
10
LOCK
9
TROB
11
C1
5
C2
6
C3
7
LEVEL SHIFTER
D
CK
18 BIT SHIFT REGISTER
18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
L-3
2
L-1
3
L-2
4
A-SW
13 BIT LATCH CIRCUIT
13 BIT LATCH CIRCUIT
15
R-3
14
R-1
13
R-2

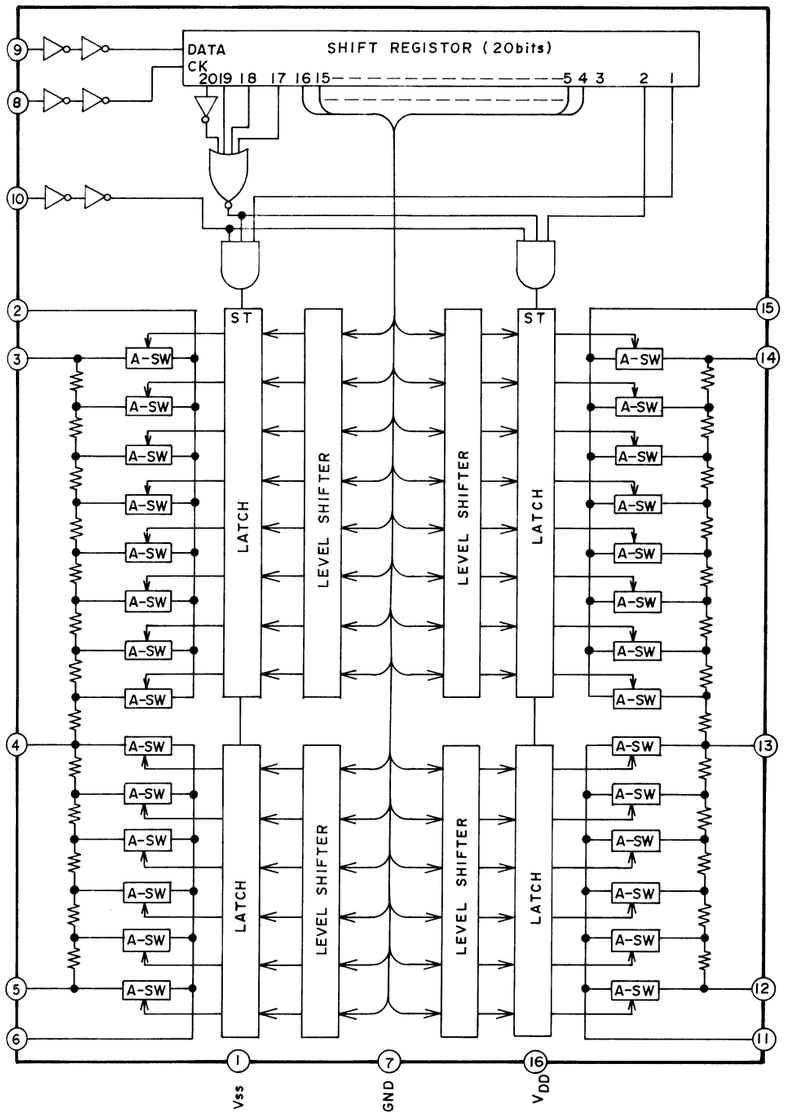
TC9162N



TC9164N



TC9176P



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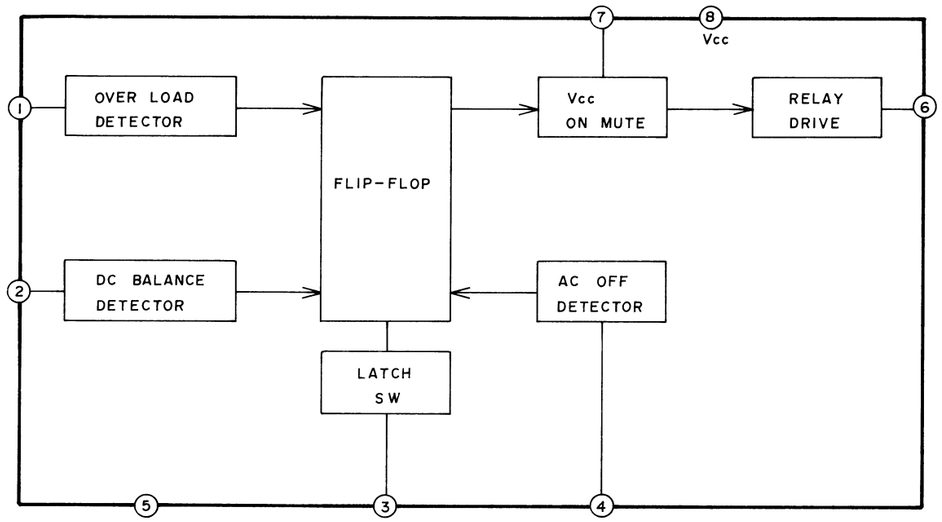

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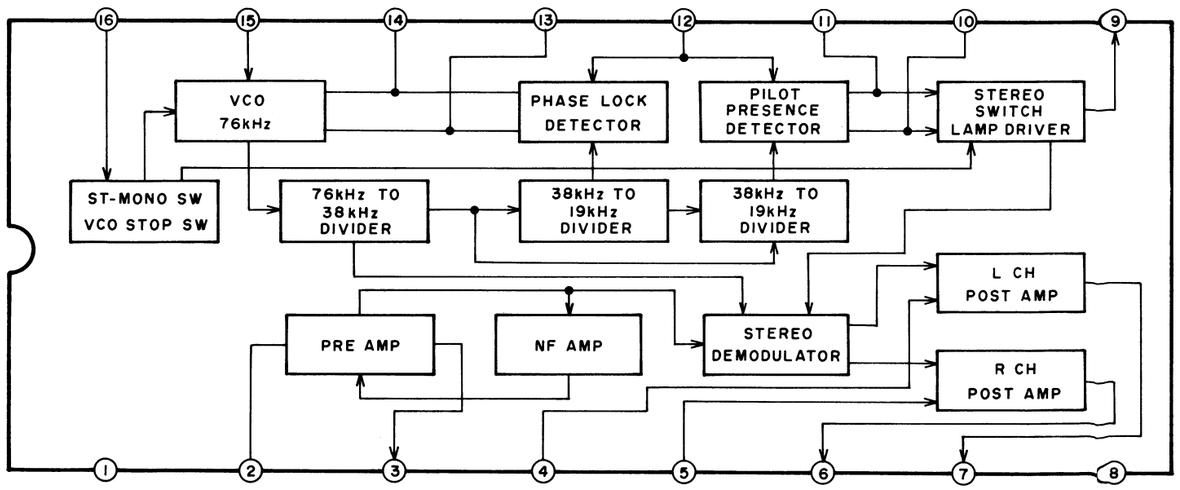
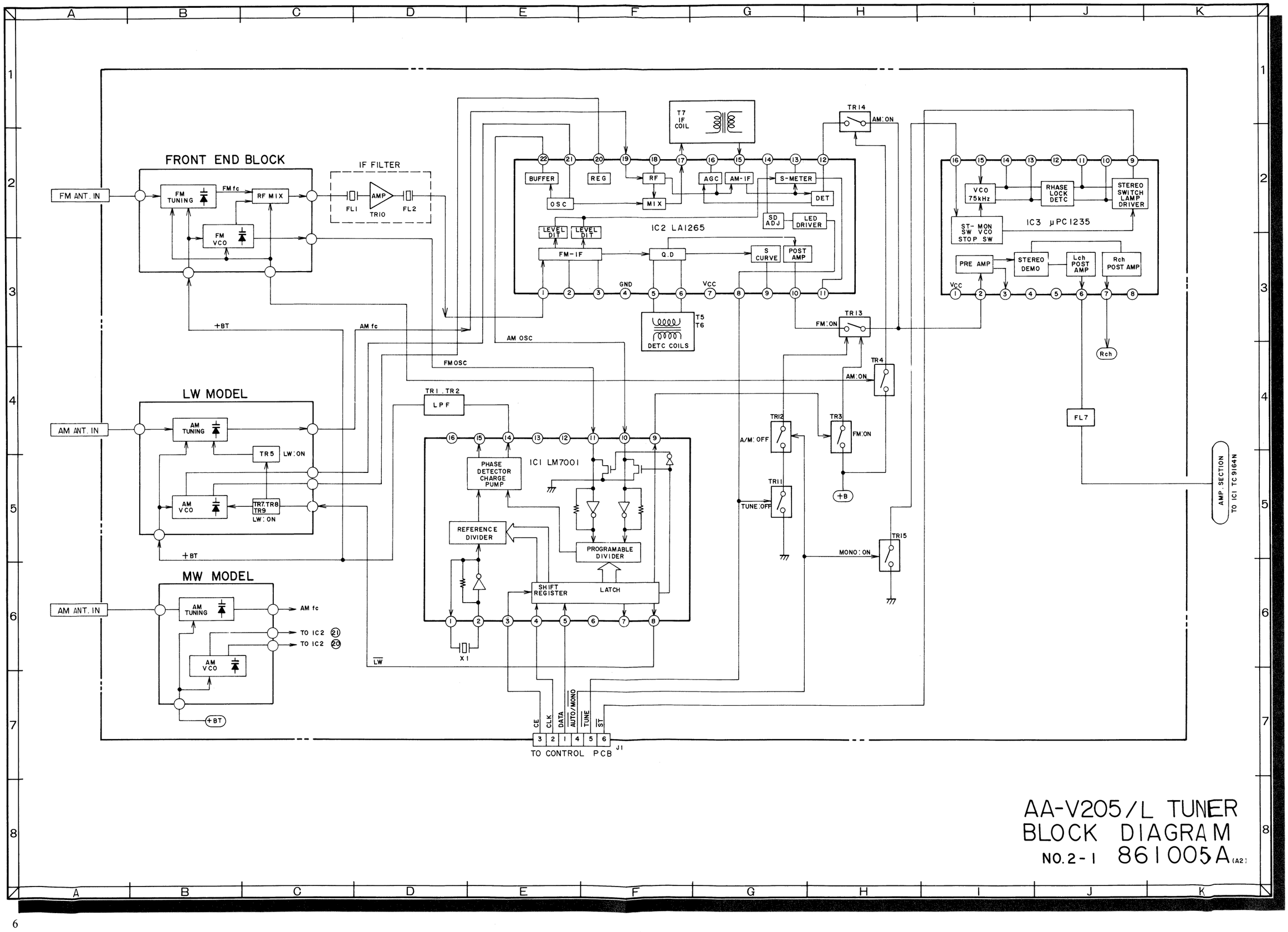
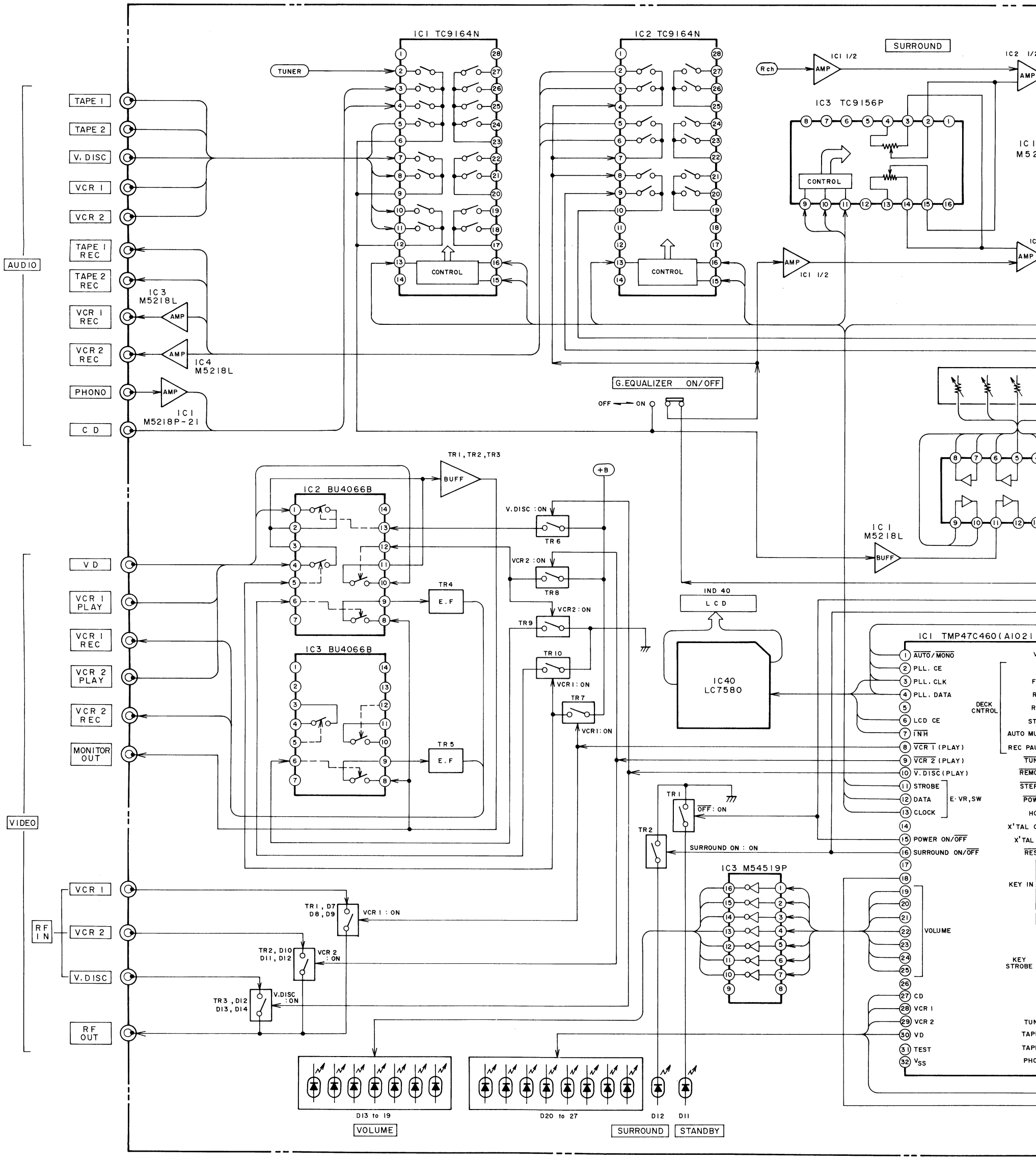


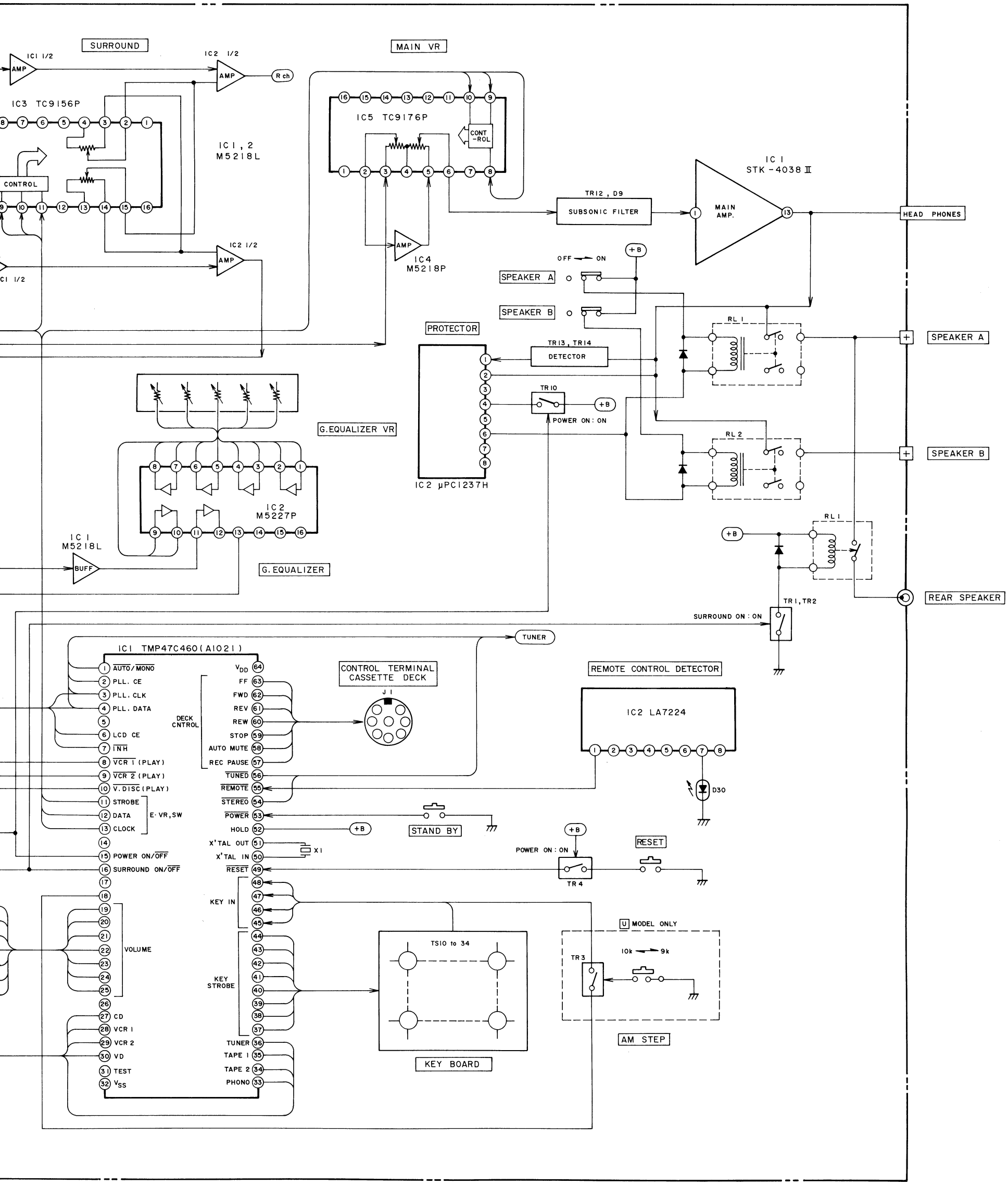


AA-V205/L TUNER BLOCK DIAGRAM

NO.2-1 861005A (A2)

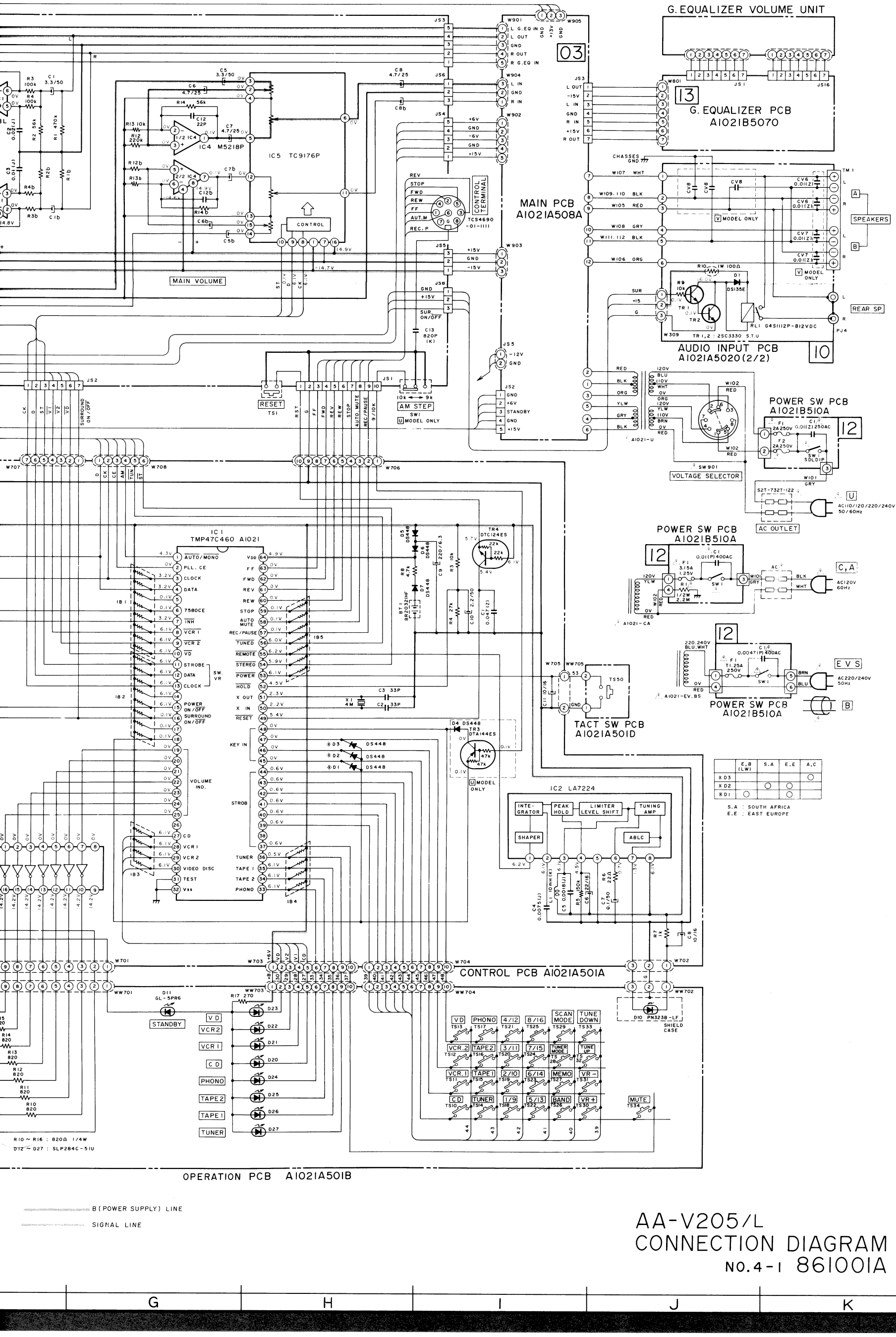
AA-V205


AUDIO
TAPE 1
TAPE 2
V. DISC
VCR 1
VCR 2
TAPE 1 REC
TAPE 2 REC
VCR 1 REC
VCR 2 REC
PHONO
C D
IC3 M5218L
IC4 M5218L
IC1 M5218P-21
AMP
IC1 TC9164N
IC2 TC9164N
TUNER
CONTROL
G.EQUALIZER ON/OFF
OFF ON
SURROUND
Rch
IC1 1/2
IC3 TC9156P
IC1 M52
VIDEO
V D
VCR 1 PLAY
VCR 1 REC
VCR 2 PLAY
VCR 2 REC
MONITOR OUT
IC2 BU4066B
IC3 BU4066B
TR1, TR2, TR3
BUFF
TR4
E.F
TR5
+B
V.DISC :ON
TR6
VCR2 :ON
TR8
TR9
TR10
VCR1: ON
TR7
IND 40
L C D
IC40 LC7580
IC1 TMP47C460(A1021
AUTO/MONO
PLL. CE
PLL. CLK
PLL. DATA
DECK CNTROL
LCD CE
INH
VCR 1 (PLAY)
VCR 2 (PLAY)
V. DISC (PLAY)
STROBE
DATA
CLOCK
E·VR,SW
POWER ON/OFF
SURROUND ON/OFF
TR1
OFF: ON
TR2
SURROUND ON : ON
IC3 M54519P
VOLUME
KEY IN
KEY STROBE
CD
VCR 1
VCR 2
VD
TEST
VSS
RF IN
RF OUT
TR1, D7 D8, D9
VCR 1 : ON
TR2, D10 D11, D12
VCR 2 :ON
TR3, D12 D13, D14
V.DISC :ON
D13 to 19
D20 to 27
D12
D11
VOLUME
SURROUND
STANDBY



AA-V205/L AMP BLOCK DIAGRAM NO. 2-2 861006A

TUNER PCB A1021A5050
AUDIO INPUT PCB A1021A5020 (1/2)
CONNECTION PCB A1021A506A
JUMPER PCB A1021A506B
IND PCB A1021A501C
VIDEO PCB A1021B5030
RF PCB A1021A5090 (U, C, A MODEL ONLY)
IC1 TC9164N
IC2 TC9162N
IC3 M5218L
IC4 M5218L
IC1 M5218P-21
IC2 BU4066B
IC3 BU4066B
IC2 M5218L
IC1 M5218L
IC3 TC9156P
IC40 LC7580
IC3 M54519P
SURROUND
CONTROL
TAPE1 REC
TAPE2 REC
VCR1 REC
VCR2 REC
VCR2 PB
VCR1 PB
TAPE2 PB
TAPE1 PB
V.D
C.D
PHONO
TUNER
CD
MONITOR OUT
VOLUME
RF OUT
RF IN
V. DISC
V MODEL ONLY
* W401 : U, C, A MODEL ONLY


G. EQUALIZER VOLUME UNIT
G. EQUALIZER PCB
A1021B5070
MAIN PCB
A1021A508A
AUDIO INPUT PCB
A1021A5020(2/2)
POWER SW PCB
A1021B510A
POWER SW PCB
A1021B510A
TACT SW PCB
A1021A501D
CONTROL PCB A1021A501A
OPERATION PCB A1021A501B
IC1 TMP47C460 A1021
IC4 M5218P
IC5 TC9176P
IC2 LA7224
MAIN VOLUME
CONTROL
RESET
AM STEP
SPEAKERS
REAR SP
VOLTAGE SELECTOR
AC OUTLET
STANDBY
TR1, 2 : 2SC3330 S,T,U
R1 ~ R16 : 820Ω 1/4W
D12 ~ D27 : SLP284C-51U
B (POWER SUPPLY) LINE
SIGNAL LINE
AA-V205/L
CONNECTION DIAGRAM
NO.4-1 861001A

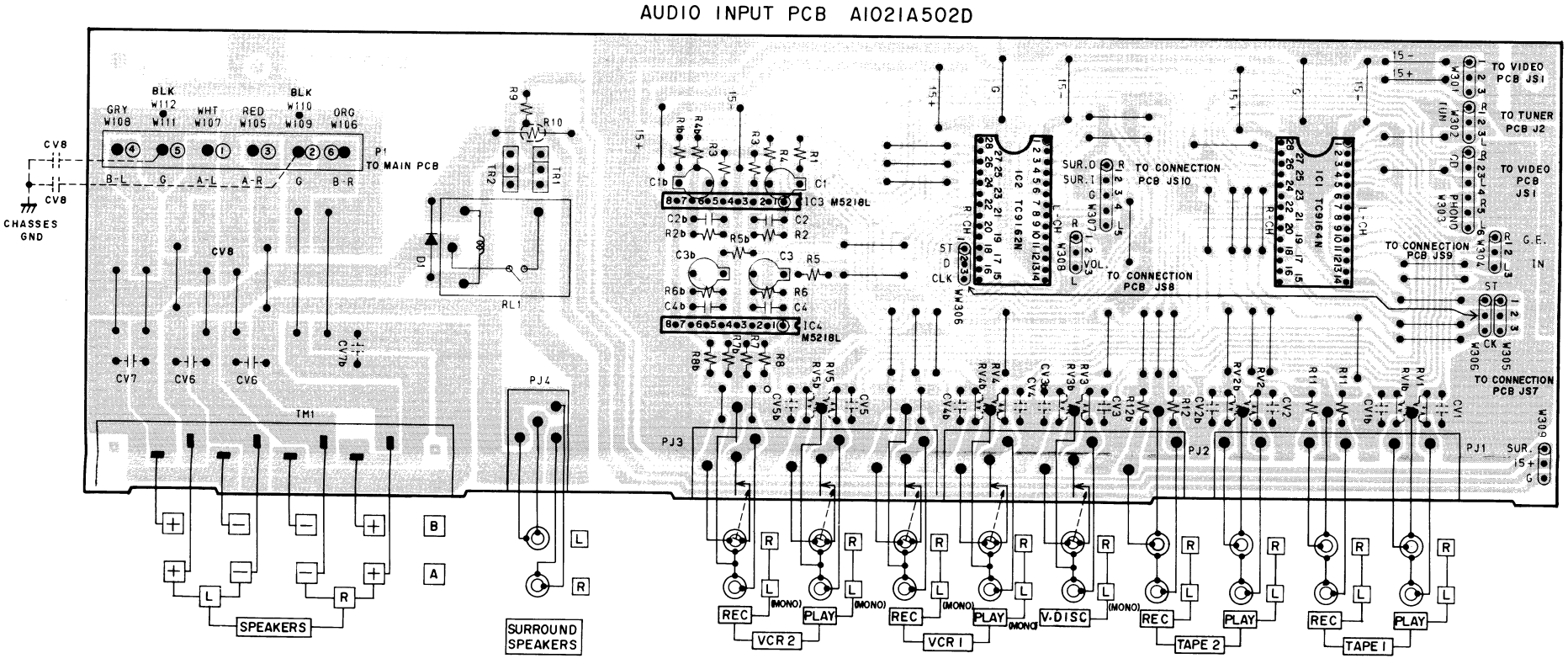
B
=NPN TRANSISTOR

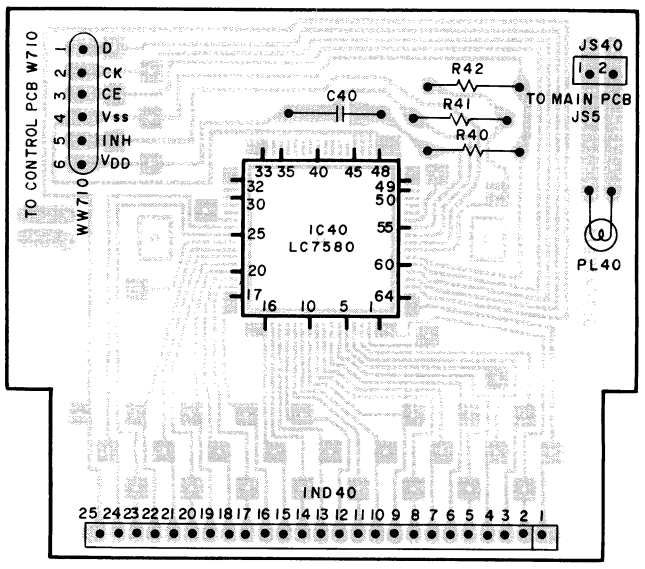
TR1,TR2----2SC3330

✱ INDICATED BY BROKEN LINE
[V] MODEL ONLY

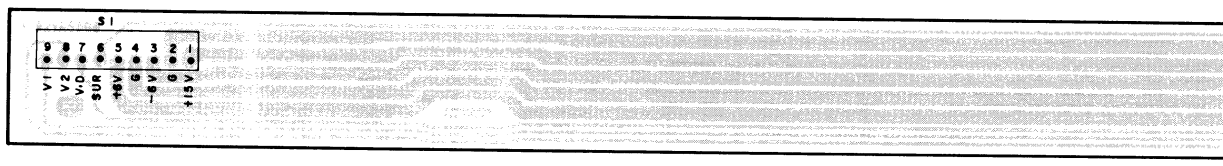
E C B
2SC3330

AUDIO INPUT PCB AI021A502D

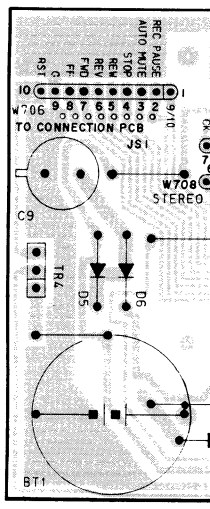




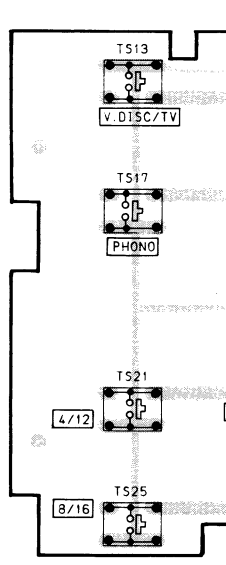
IND PCB AI021A501C

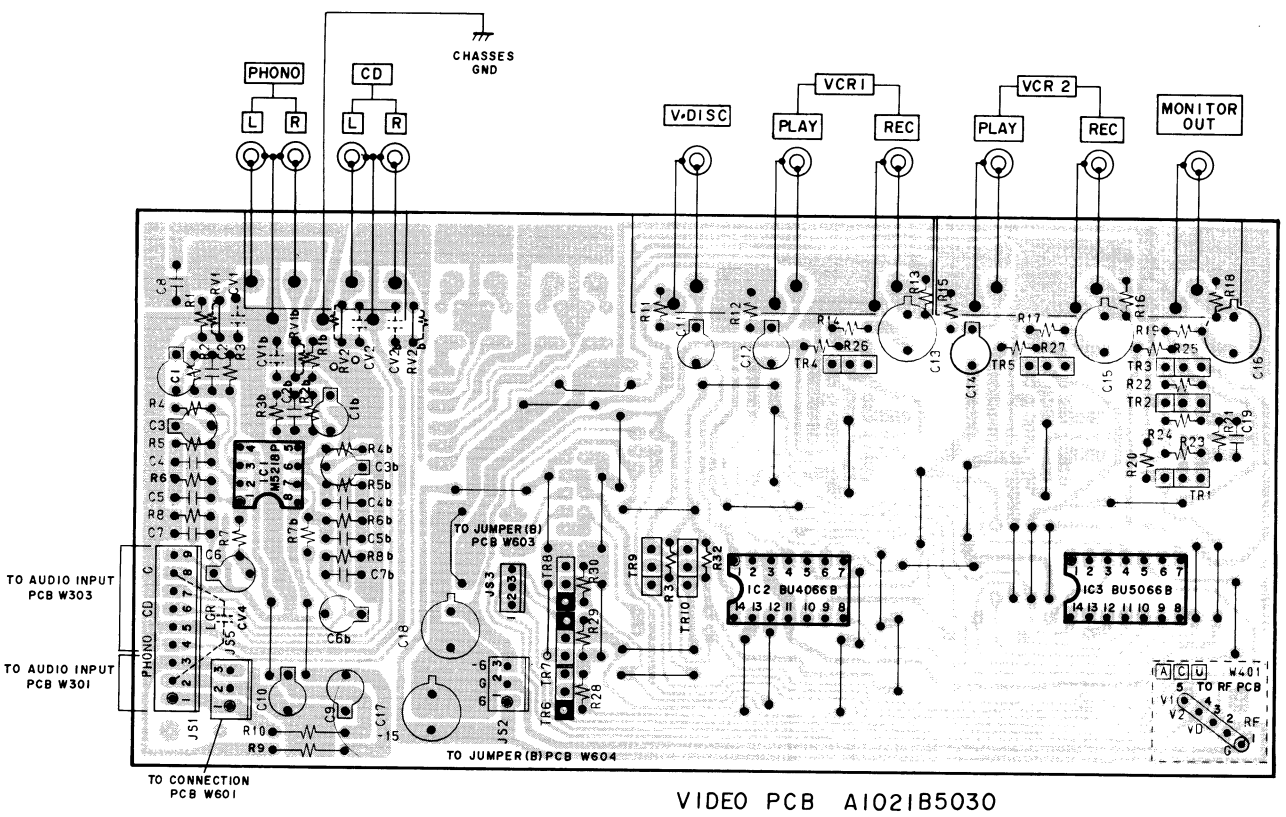


JUMPER PCB AI021A506B



CONTROL P





VIDEO PCB AI021B5030

✱ INDICATED BY BROKEN LINE [V] MODEL ONLY

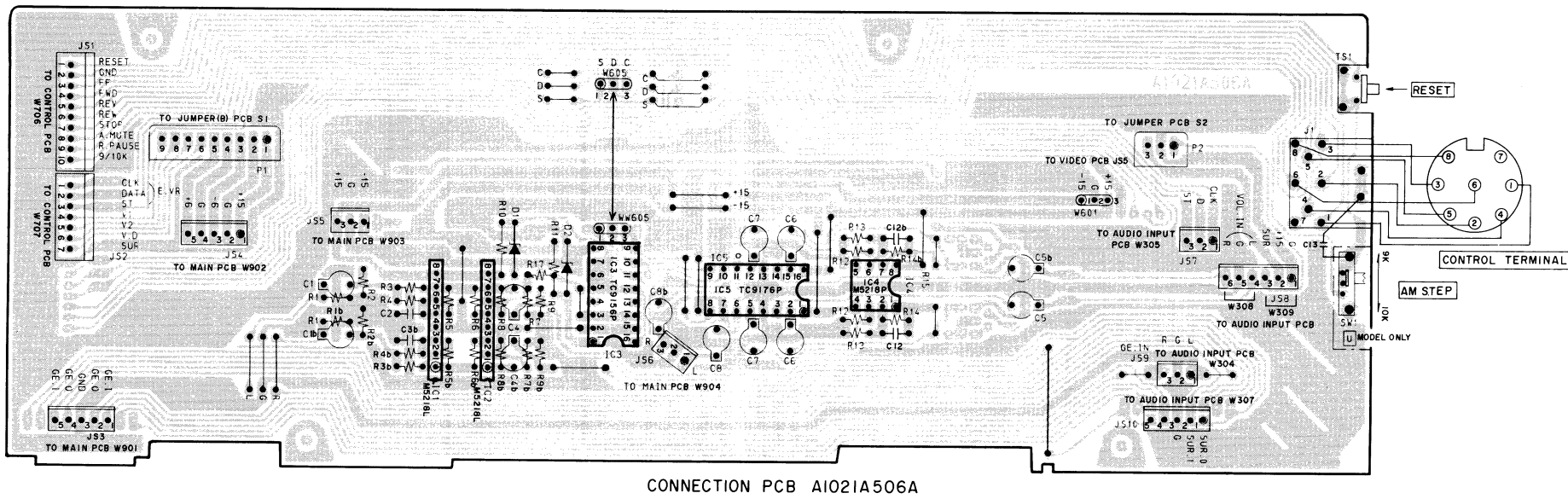
B
=PNP TRANSISTOR

B
=NPN TRANSISTOR

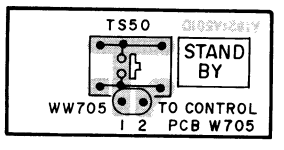
TR1 to 5----2SC3330
TR6 to 8----DTA114TS
TR9,10-----DTC114TS

E C B
2SC3330

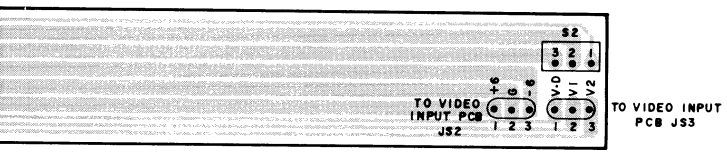
B C E
DTA114TS
DTC114TS



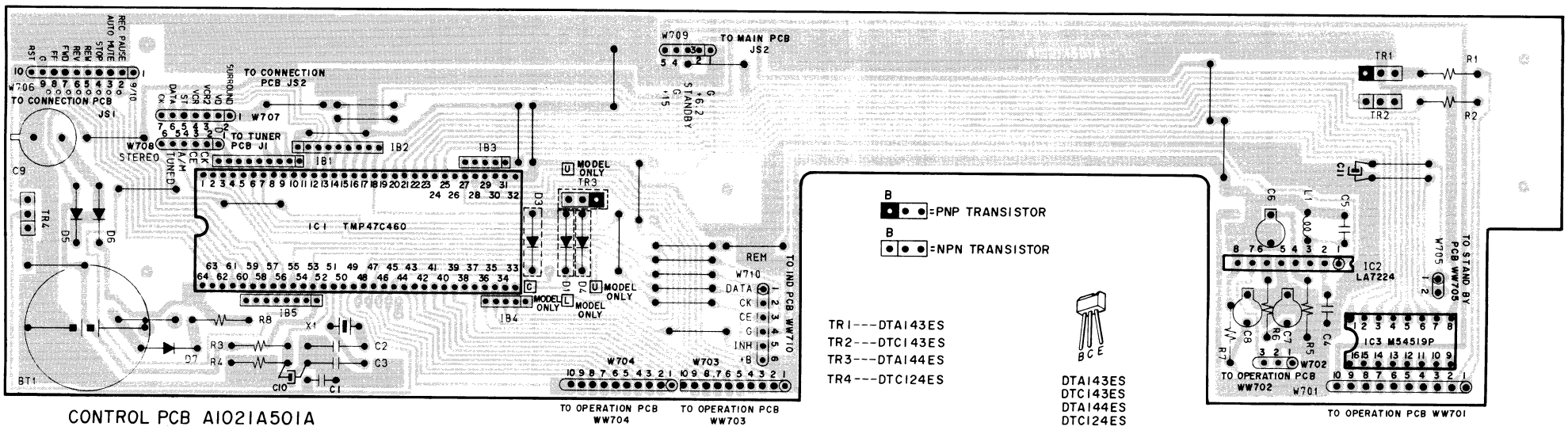
CONNECTION PCB A1021A506A



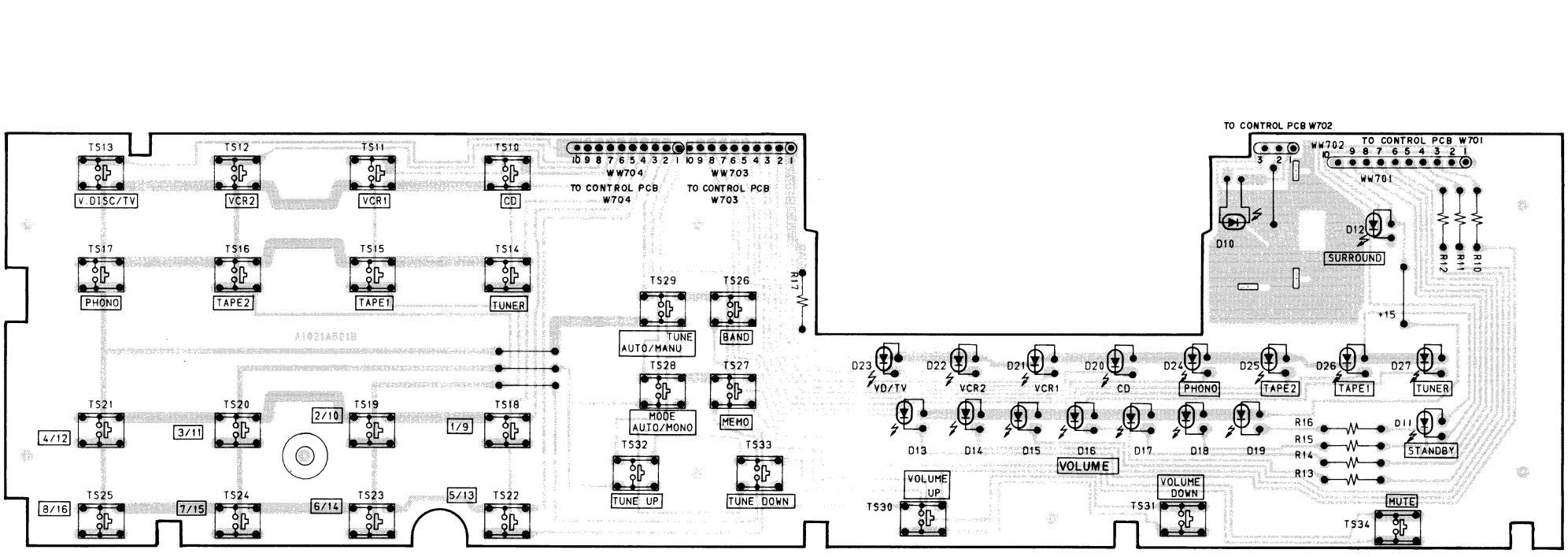
TACT SW PCB A1021A501D



1A506B



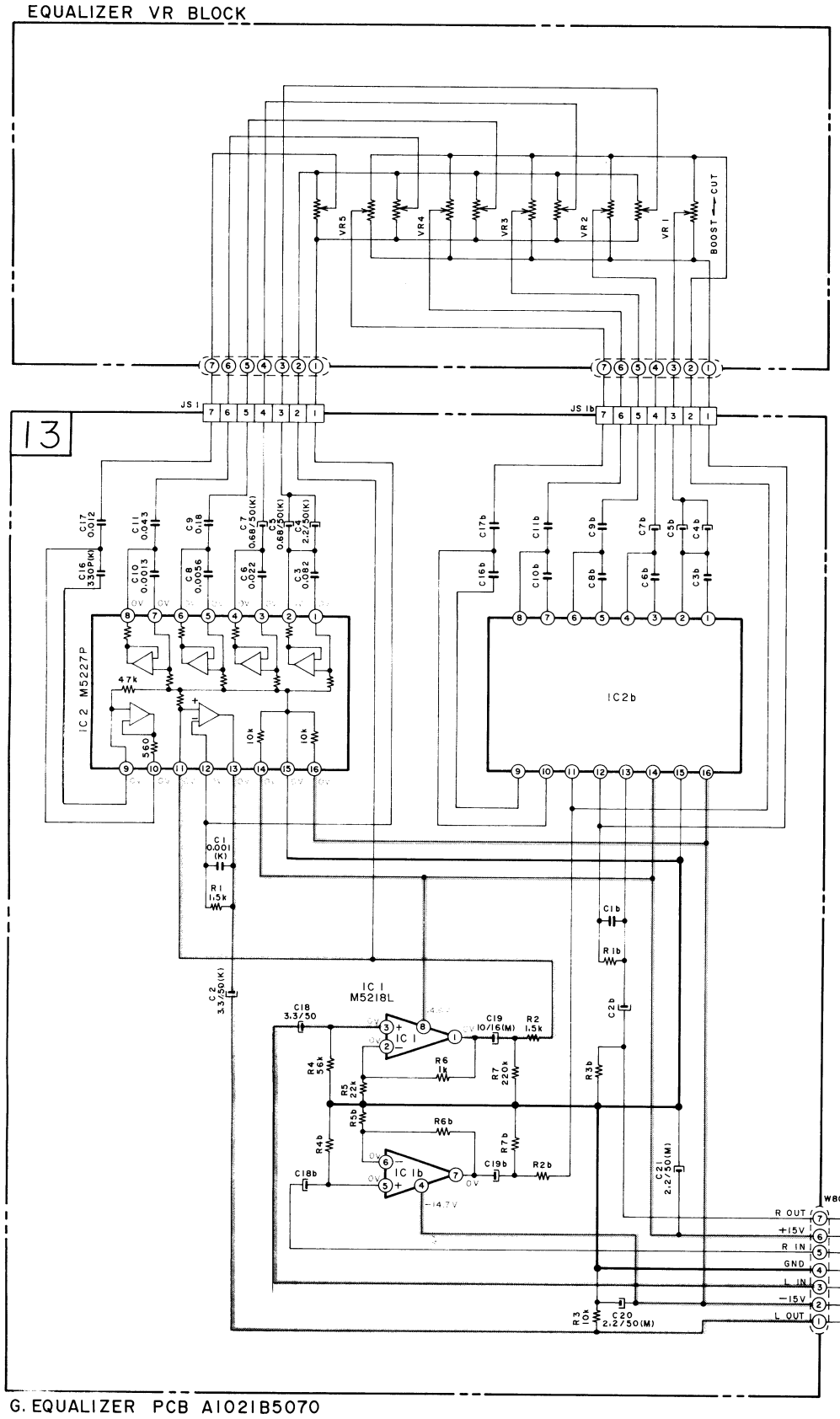
CONTROL PCB A1021A501A



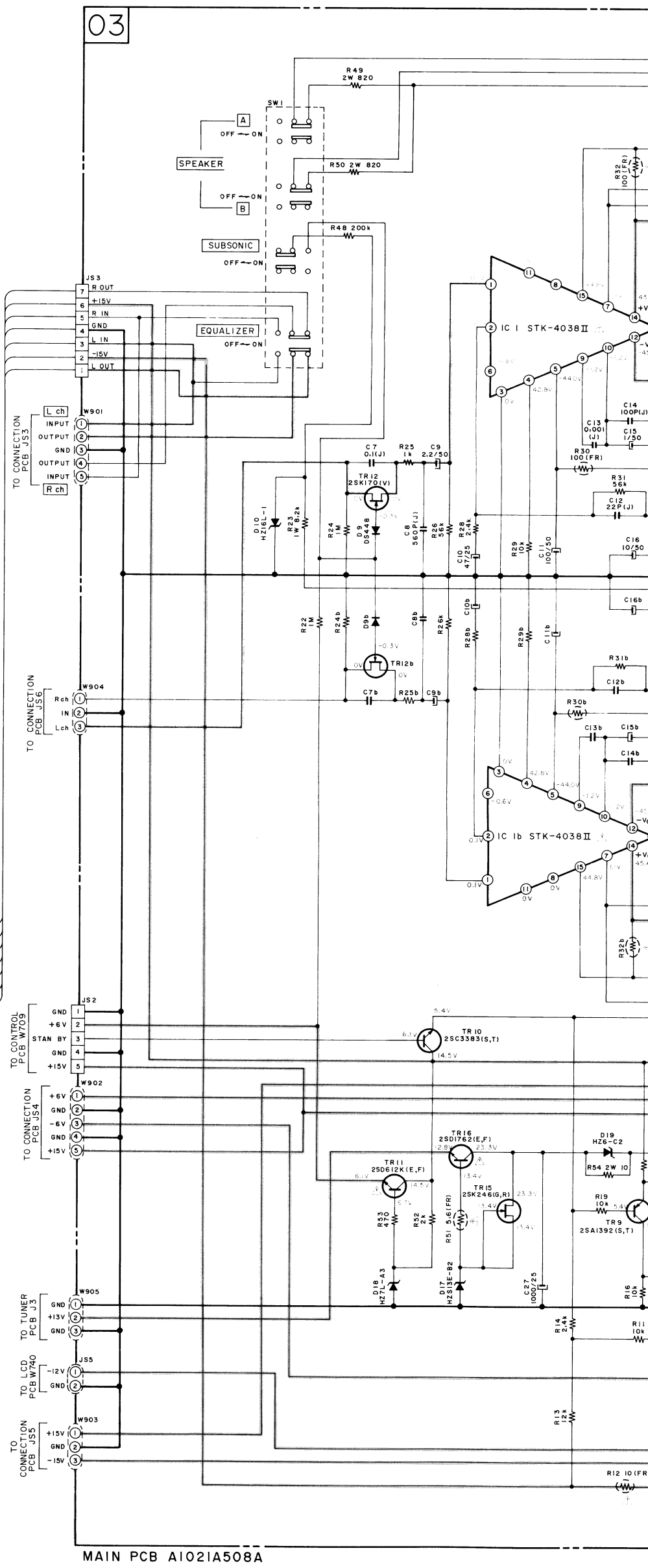
OPERATION PCB A1021A501B

AA-V205

EQUALIZER VR BLOCK



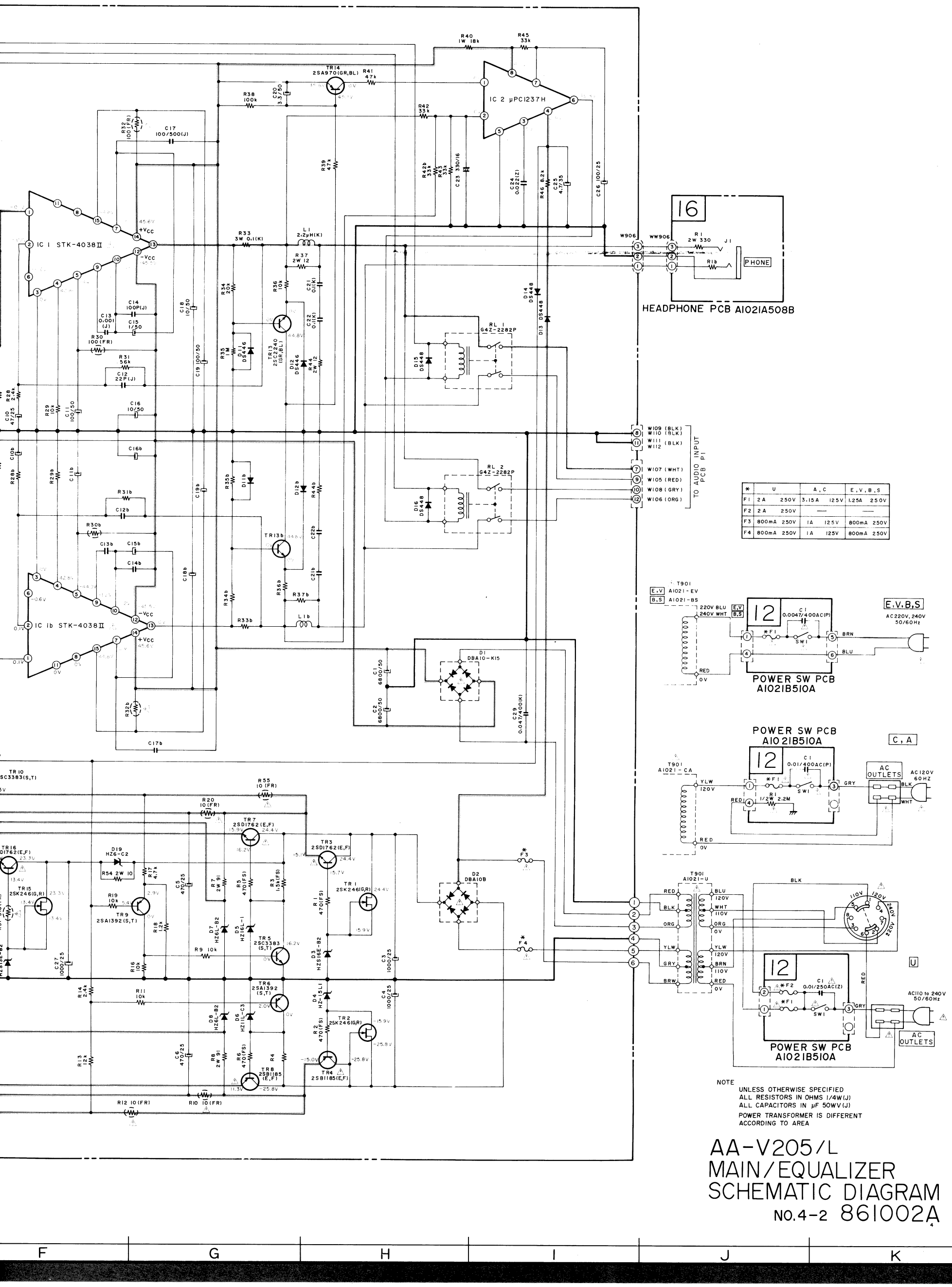
G. EQUALIZER PCB A1021B5070



MAIN PCB A1021A508A

B (POWER SUPPLY) LINE

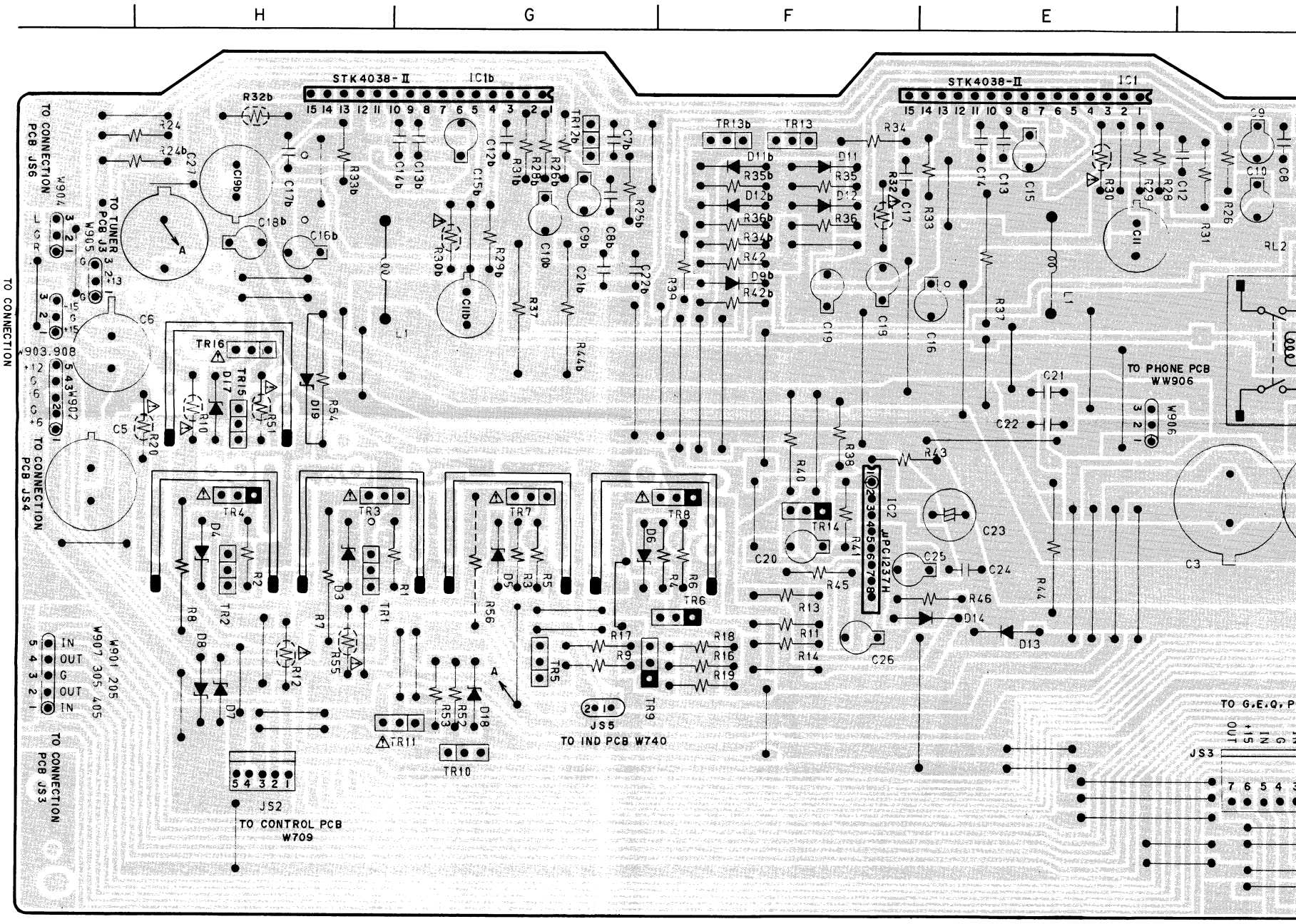
SIGNAL LINE



*	U	A,C	E,V,B,S
F1	2A 250V	3.15A 125V	1.25A 250V
F2	2A 250V	—	—
F3	800mA 250V	1A 125V	800mA 250V
F4	800mA 250V	1A 125V	800mA 250V

AA-V205/L MAIN/EQUALIZER SCHEMATIC DIAGRAM

NO.4-2 861002A



MAIN PCB A1021A508A

LOCATION OF COMPONENTS

IC's
- IC1---G1
- IC1b---E1
- IC2---F2

TR's
- TR1---H2
- TR2---H2
- TR3---H2
- TR4---H2
- TR5---G3
- TR6---F3
- TR7---G2
- TR8---F2
- TR9---G3
- TR10---G3
- TR11---G3
- TR12--D1
- TR12b--G1
- TR13--F1
- TR13b--F1
- TR14--F2
- TR15--H2
- TR16--H2

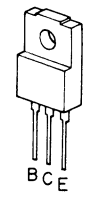
- TR1,2,15---2SK246
- TR3,7,16---2SD1762
- TR4,8-----2SB1185
- TR5,10-----2SC3383
- TR6,9-----2SA1392
- TR11------2SD612K
- TR12------2SK170
- TR13------2SC2240
- TR14------2SD970

S G D =FET

B =PNP TRANSISTOR

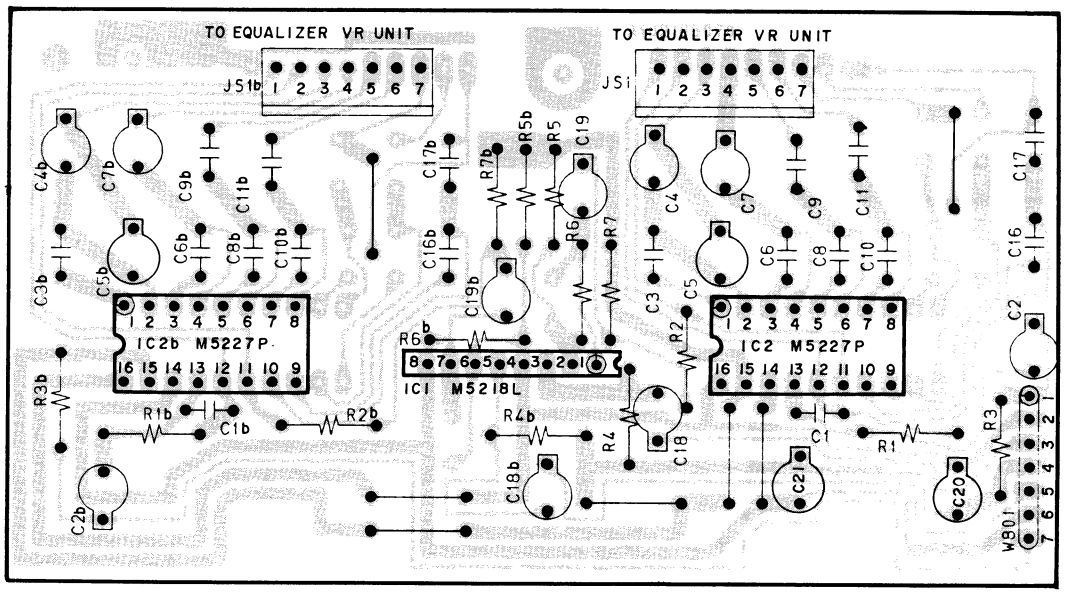
B =NPN TRANSISTOR

2SK246

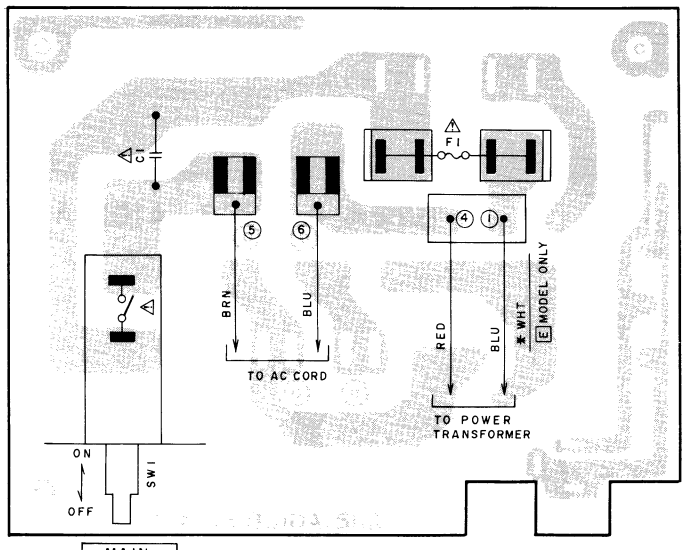


2SD1762
2SB1185

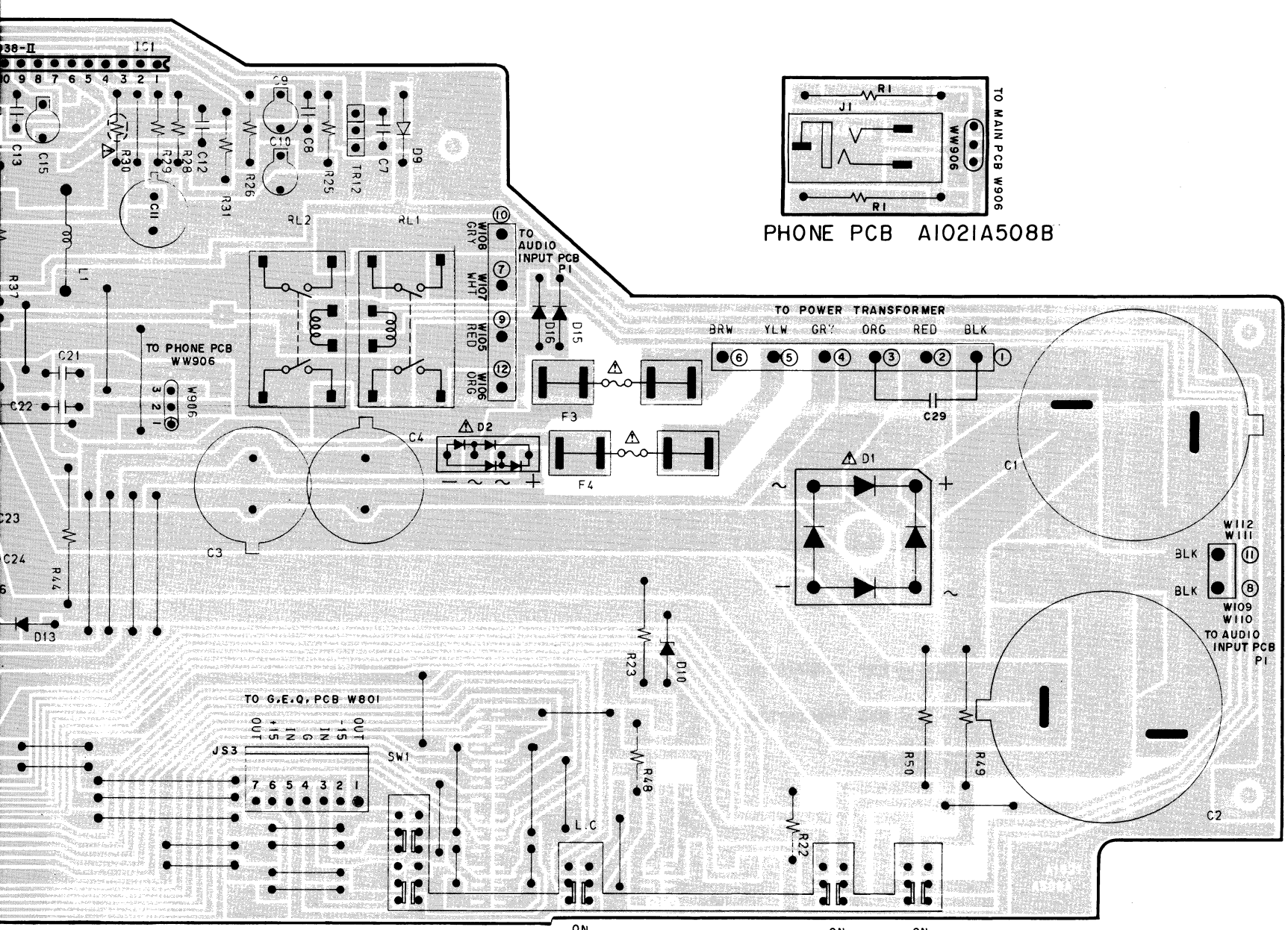
2SC338
2SA139
2SC224



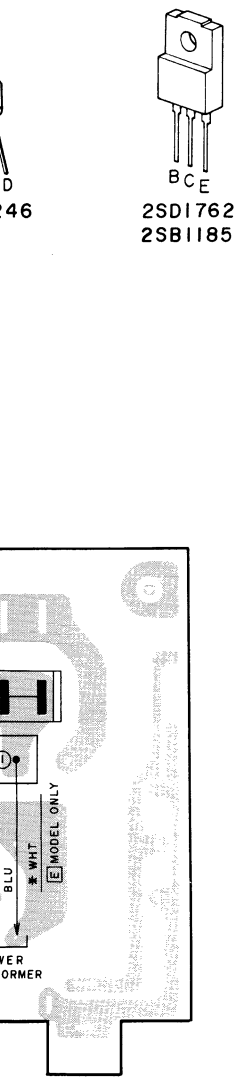
G EQUALIZER PCB A1021B5070



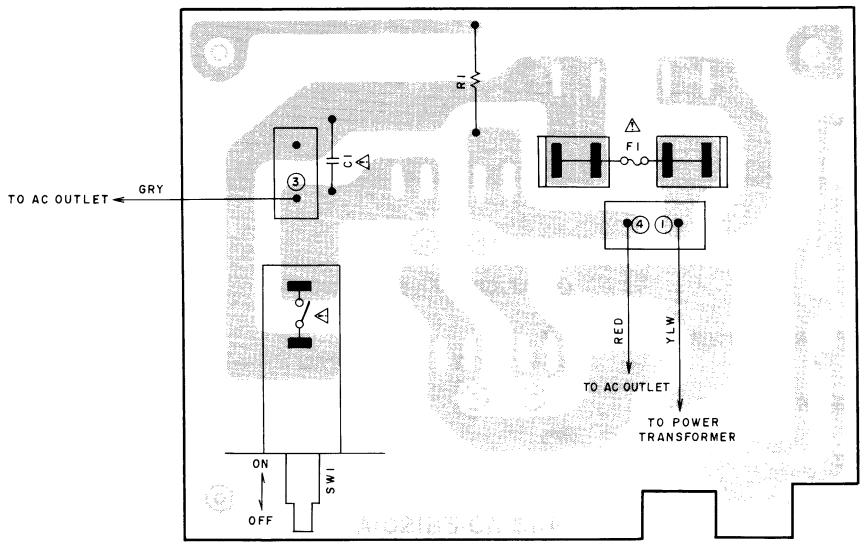
MAIN POWER SW POWER SW PCB A1021B510A V,B,S,E



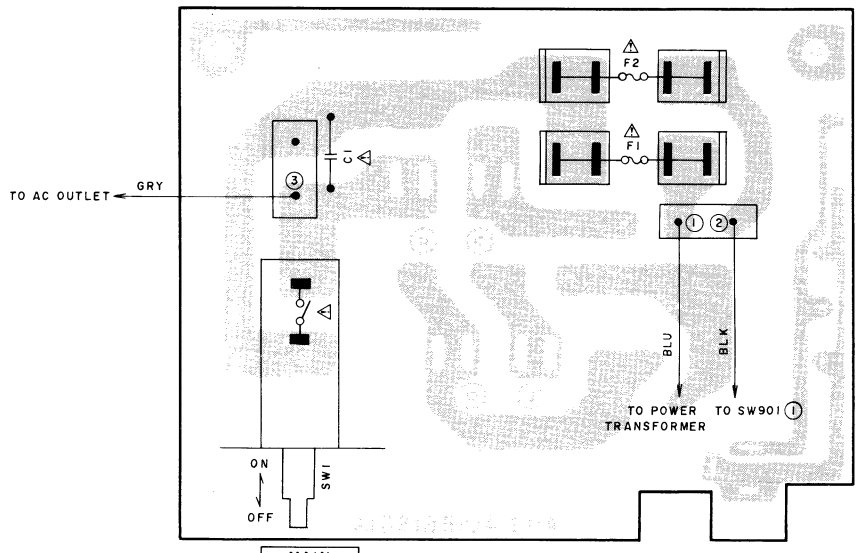
PHONE PCB A1021A508B



510A V,B,S,E



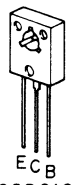
MAIN POWER SW POWER SW PCB A1021B510A A,C



MAIN POWER SW POWER SW PCB A1021B510A U

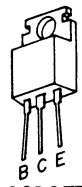
BC E
2SD1762
2SB1185

E C B
2SC3383
2SA1392
2SC2240



E C B
2SD612K

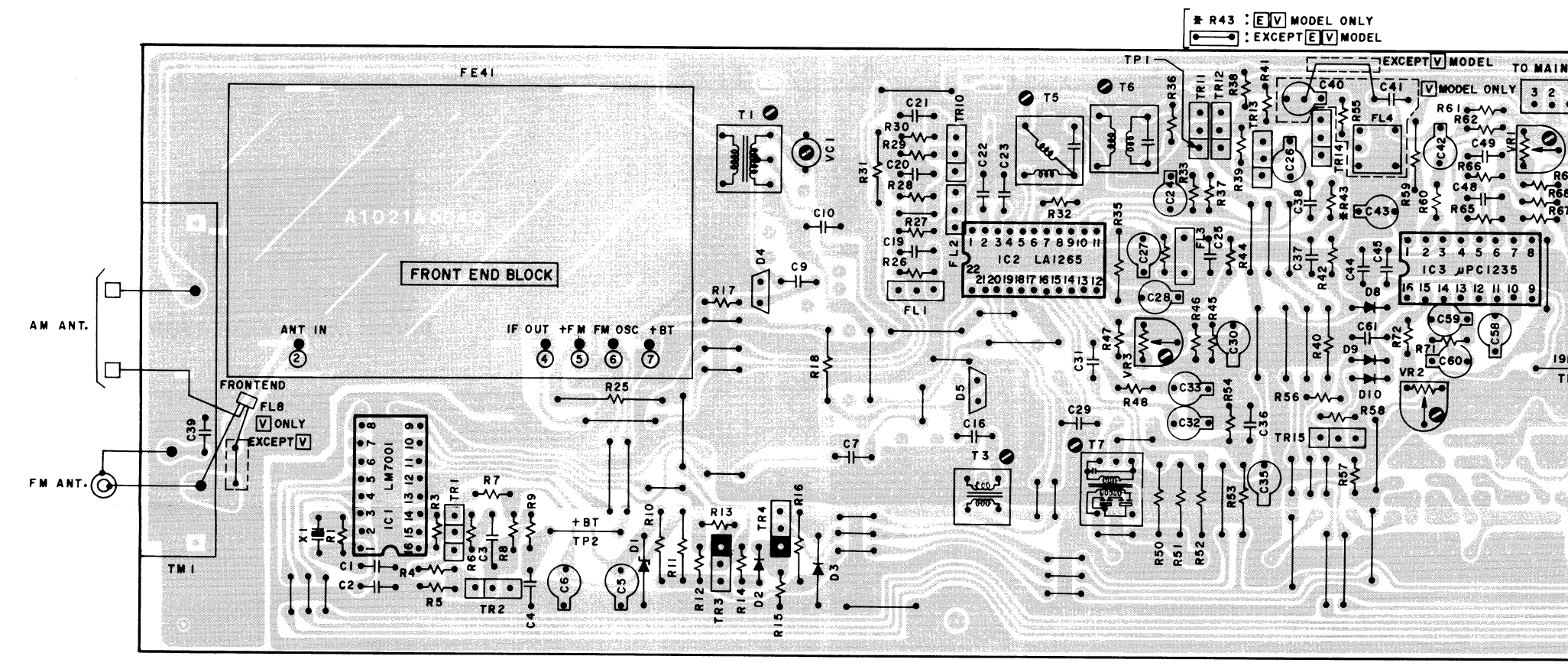
D G S
2SK170



B C E
2SD970

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT



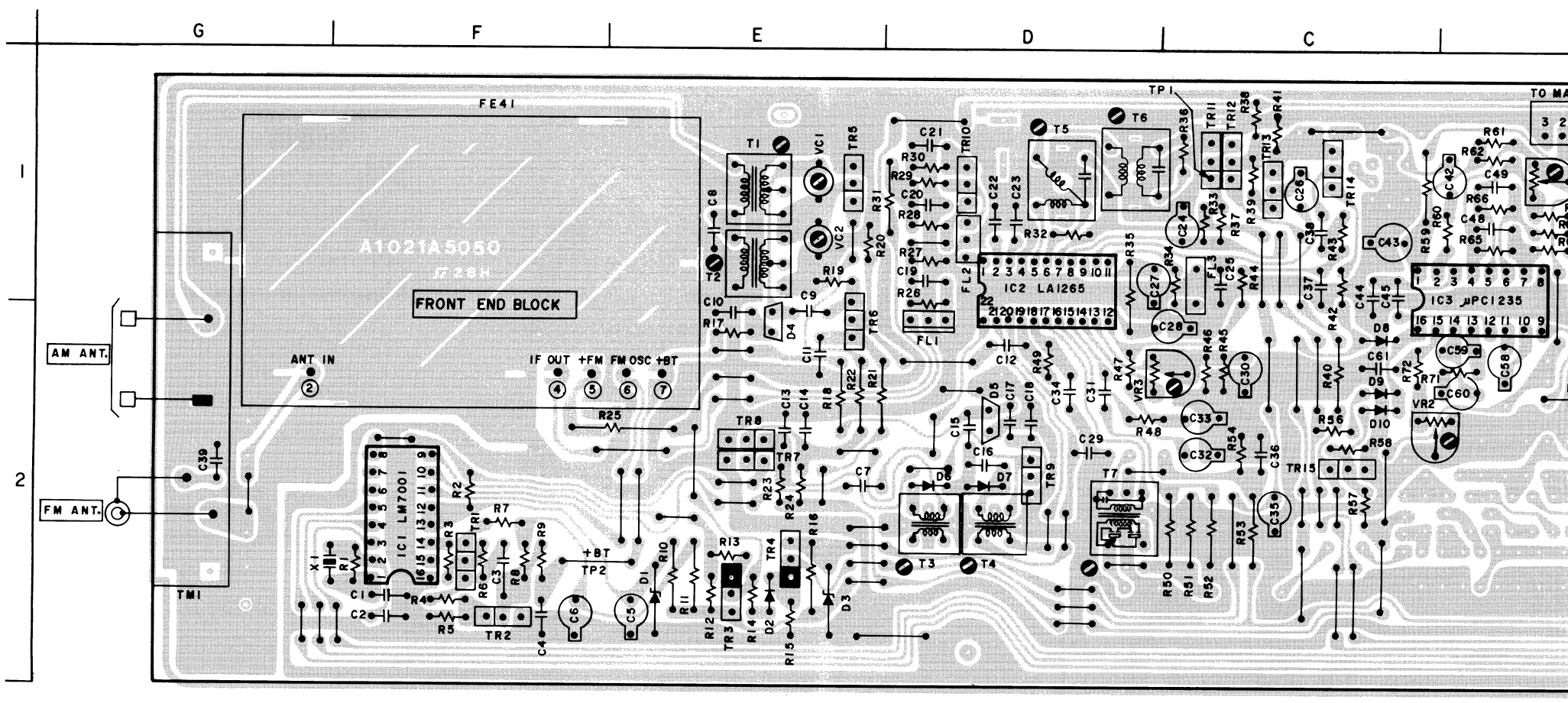
B
=PNP TRANSISTOR
B
=NPN TRANSISTOR
S G D
=FET

TR1 ---------- 2SK246
TR2,13,14------ 2SC3383
TR3,4 -------- 2SA1317
TR10 --------- 2SC930
TR11,12 ------- 2SC603
TR15 --------- DTC144WS

2SK246

2SC3383
2SC930

2SA1317



B
=PNP TRANSISTOR
B
=NPN TRANSISTOR
S G D
=FET

TR1 ---------- 2SK246
TR2,13,14------ 2SC3383
TR3,4 -------- 2SA1317
TR5 ---------- 2SC2878
TR6 ---------- 2SK192
TR7,8,15 ------ DTC144WS
TR9 ---------- DTC144ES
TR10 --------- 2SC930
TR11,12 ------- 2SC603

LOCATION OF COMPONENTS

IC's
IC1 ---F2
IC2 ---D2
IC3 ---B1
TR's
TR1 ---F2
TR2 ---F2
TR3 ---E2
TR4 ---E2
TR5 ---E1
TR6 ---E1
TR7 ---E2
TR8 ---E2
TR9 ----D2
TR10 ----D1
TR11 ----C1
TR12 ----C1
TR13 ----C1
TR14 ----C1
TR15 ----C2

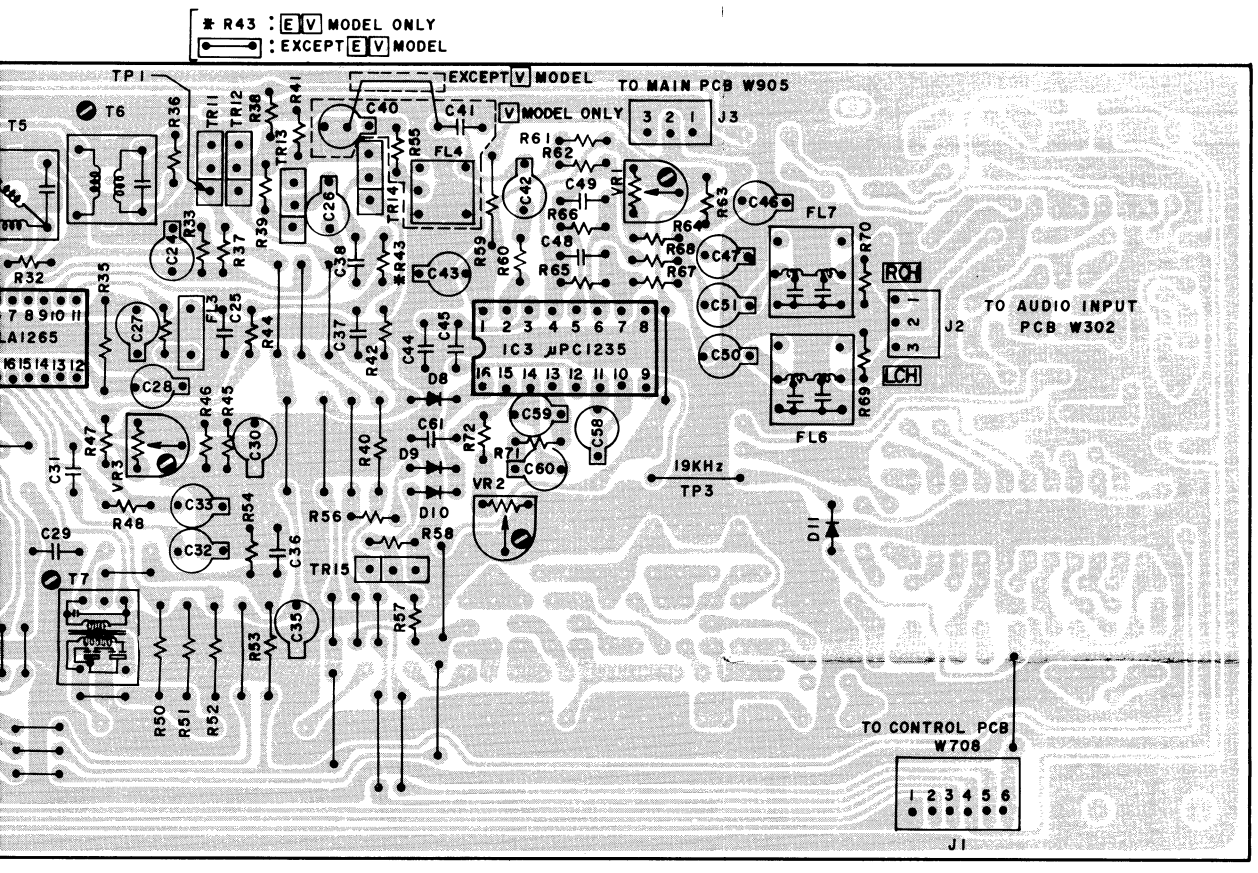
TP1 -----C1
TP2 -----F2
TP3 -----B2

2SK246

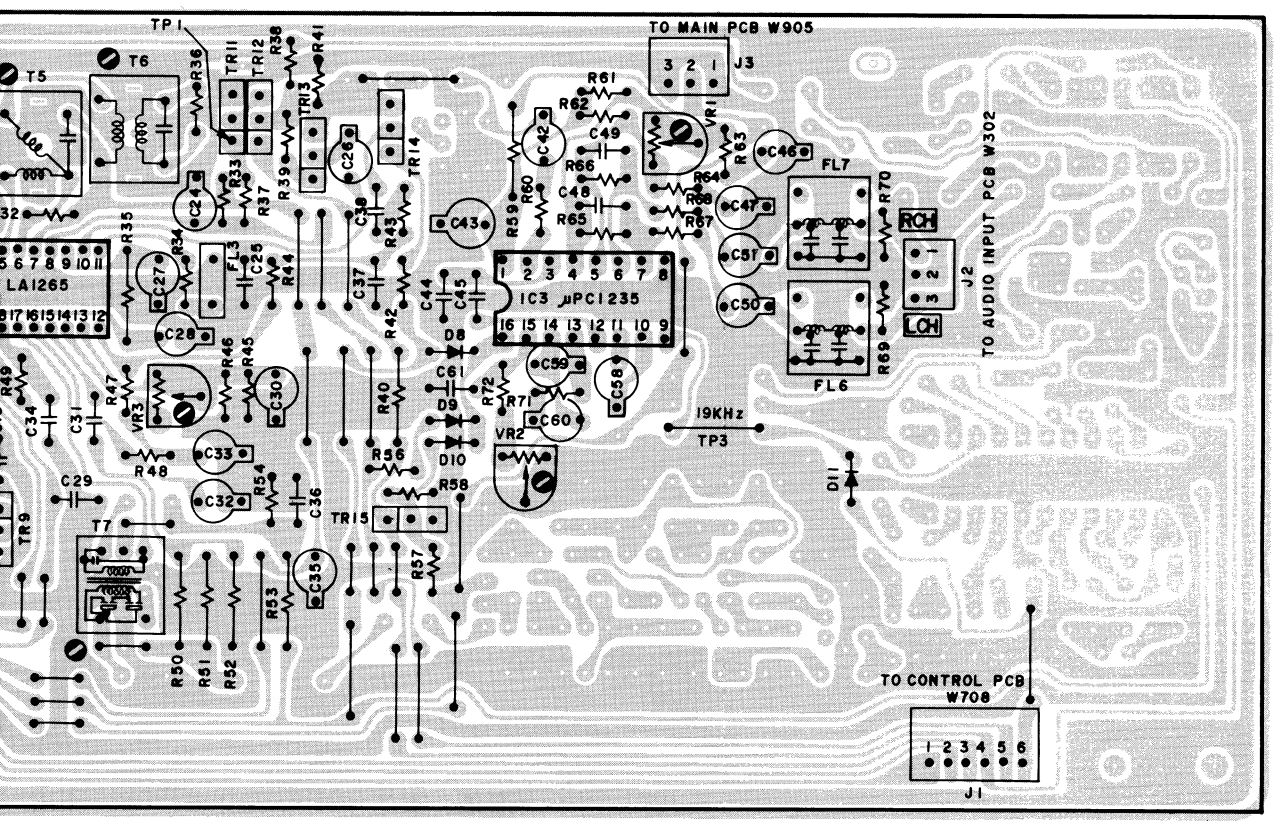
2SC3383
2SC930
2SC2878

2SA1317

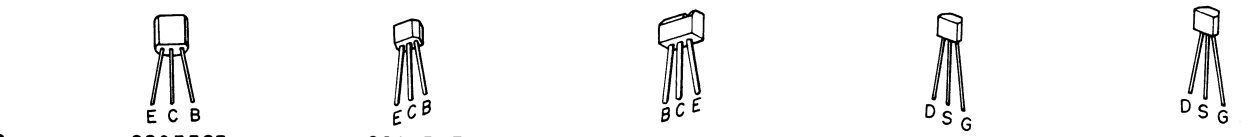
DTC144
DTC144

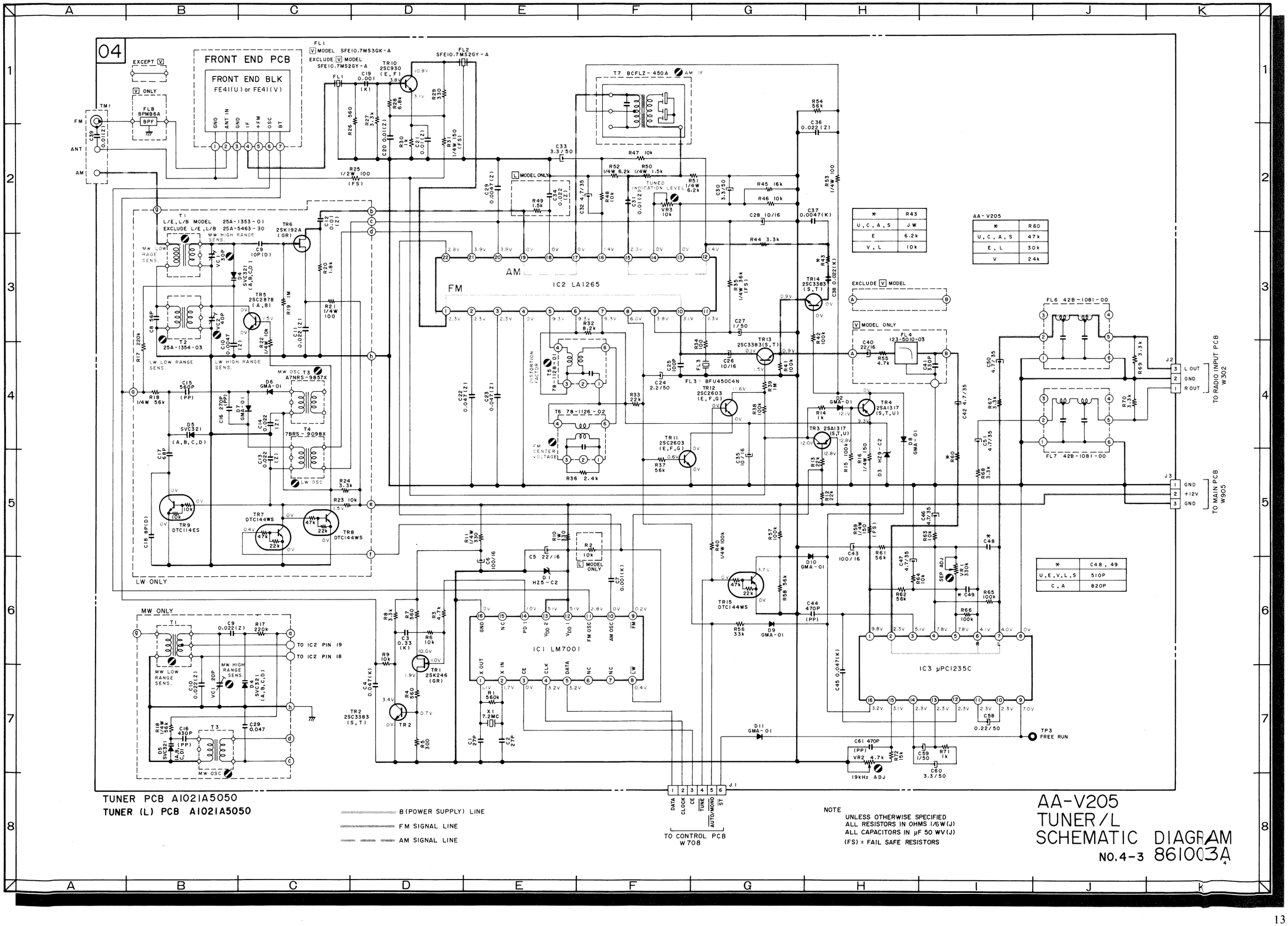


TUNER PCB A1021A5040



TUNER (L) PCB A1021A5050



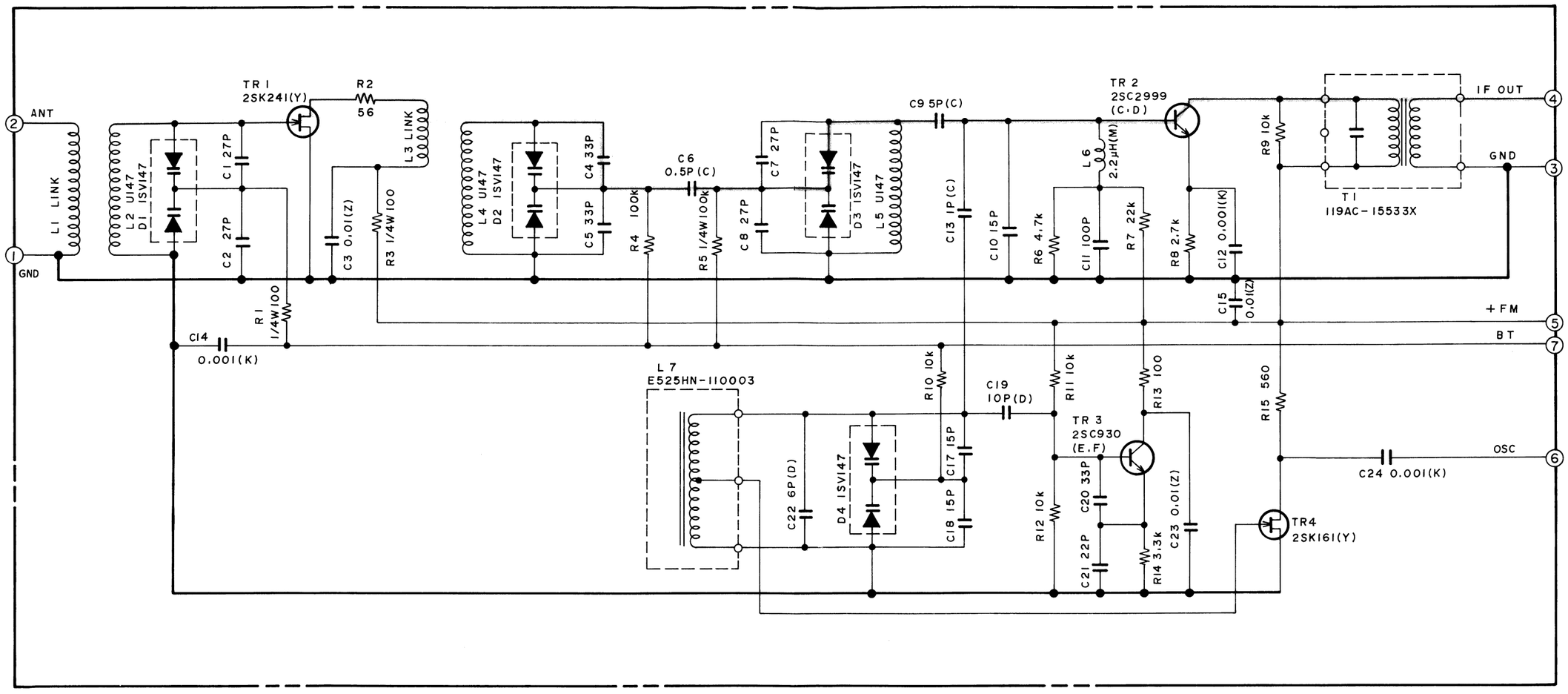


*	R43
U, C, A, S	JW
E	6.2k
V, L	10k

AA-V205

*	R60
U, C, A, S	47k
E, L	30k
V	24k

*	C48, 49
U,E,V,L,S	510P
C, A	820P



FRONT END PCB C1005B5040

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W(J)
ALL CAPACITORS IN μF 50WV(J)

: SIGNAL LINE

AA-V205/L
FRONT END
SCHEMATIC DIAGRAM
NO.4-4 861004A

ABBREVIATIONS FOR SERVICE MANUAL(RECEIVER)

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
AFC	Auto Frequency Control	MEMO	MEMOry
AGC	Auto Gain Control	MI-COM	MIcro-COMputer
ALC	Auto Level Control	MIN	MINimum
AM	Amplitude Modulation	MIX	MIXing
AMP	AMPlifier	MPX	Multi pleX
ANT	ANTenna	MW	Medium Wave (frequency)
BATT	BATTery	NC	No Connection
BLK	BLocK	NFB	Negative Feed Back
BUFF	BUFFer	OSC	OSCillator
COMP	COMPalator	PCB	Printed Circuit Board
DET	DETect (DETctor)	PLL	Phase Locked Loop
FLD		Q.D	Quadrature Detector
FM	Frequency Modulation	Rch	Right channel
FREQ	FREQuency	REF	REFerence
GND	GrouND	REG	REGulator
H	High	RF	Radio Frequency
HPF	High Pass Filter	SEG	SEGment
IF	Intermediate Frequency	SELE	SELEctor
IHF	Institut of High Fidelity	SENS	SENSitivity
IND	INDicator	SIG	SIGnal
I/O	In/Out	S/N	Signal to Noise Ratio
JW	Jumper Wire	SSG	Standard Signal Generator
L	Low	STD	STanDard
LCD	Liquid Crystal Display	SW	SWitch: Short Wave (frequency)
Lch	Left channel	THD	Total Harmonic Distortion
LED	Light Emiting Diode	TP	Test Point
LPF	Low Pass Filter	VCO	Voltage Controlled Oscillator
LW	Long Wave (Frequency)	VR	Variable Resistor
		X'TAL	Crystal